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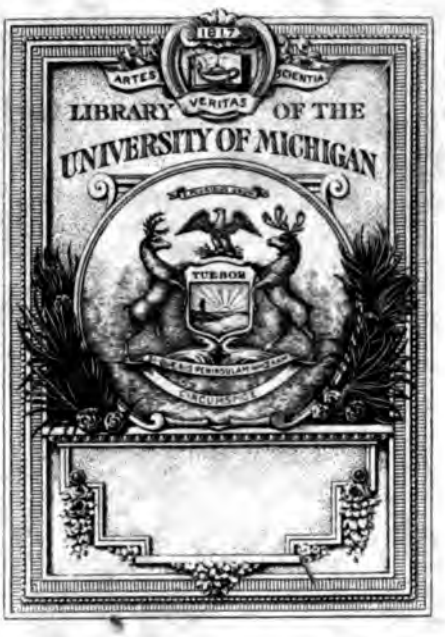
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# PREFACE.

THE compilation of this Catalogue was commenc
date, and was continued up to the death of its c

It contains over 18,000 entries, comprising not
pamphlets, and other publications in the RONALD
also the titles of all other works on the subject of E
netism, &c. which came to the notice of its compile

The titles are arranged under the authors' names,
mous entries have been placed, with a slight attempt
under a separate heading at the end of letter A.

After Sir Francis Ronalds retired from the di
Observatory, he lived for many years abroad, chie
principal occupation being the compilation of thi
the formation of his Library. He, consequently,
opportunities for obtaining the foreign works upon
the collection is extremely rich in such publications.

During this time it was one of his favourite pursu
many of the Electrical works as possible which he
had belonged to those whose names have become
identified with the subject. An instance of thi
the celebrated Volta's works, a large number of w
from the Count Zanino Volta at great personal
expense. There are also in the Library many work
belonged to Arago, Faraday, Roget, and others.

Many of the most important works relating to
indeed, of most other branches of science, consi
tributed to the Transactions and Proceedings of sci

to scientific periodicals. These papers have each been treated as separate works, and their titles are recorded under the author's name, a note being added giving the reference to the transactions or periodicals where they may be found.

A considerable number of the titles have been obtained from booksellers' catalogues, and from notes and references in Electrical writings, and, where Sir Francis Ronalds has been unable to obtain the works, the source from which the title was obtained is in most cases given.

The date and place of birth, and, where possible, of the death of each author, have been added, the greater portion of these having been obtained from Poggendorff's "Handwörterbuch zur Geschichte der Exacten Wissenschaften," 2 vols. Roy. 8vo. Leipzig, 1863. This work was also carefully examined, and those parts extracted which relate to Electricity.

As the binding of the books in the Library has only just been completed, it was impossible, owing to the want of arrangement of the works, and to the large number of unbound pamphlets and papers, to refer to them to any extent for the correction of titles, besides which, there are between 3,000 and 4,000 titles of works entered in the Catalogue which are not in the Library.

The Catalogue is published without the addition of subsequent entries, such being the express desire of the donor of the Library, Mr. Samuel Carter. Great efforts were made to obtain his permission to make additions, and, as far as possible, to complete the Catalogue to the date of publication, but it is to be regretted that these efforts were unsuccessful. The Society has, however, in hand a large amount of material available for this purpose, and it is contemplated at a not very distant date to publish a Supplement which will make the Catalogue more complete, at any rate as regards the more recent publications.

Great care has been taken to issue the Catalogue as free from error as possible, and it is hoped that it will be found as accurate as the nature of the work will permit.

There can be no doubt that it was the original intention of Sir Francis Ronalds to present his Library to the Royal Society (of which he was a Fellow), but previous to his death it was represented to him that it would add but little to the value of the Royal Society's collection, as they already possessed the greater number of the books. It was further represented that as his name was so much identified with the subject of Electrical Telegraphy, he would be conferring great benefit upon those specially interested in Electricity and the Electric Telegraph, by making the Library more available for their use than it could be in the Library of the Royal Society, in which place it would be, to a great extent, out of the reach of practical electricians and telegraph engineers. These arguments did not fully prevail with him, as the Society had only recently been founded, and could at that time scarcely be said to have been firmly established.

Sir Francis Ronalds became one of the earliest members of the Society, but, owing to his advanced age, he was unable to be present at any of its meetings. He died about two years after its foundation, but he had during this time some opportunity of seeing its rapid development, and no doubt this, coupled with the representations that had been made to him, considerably influenced him in the disposal of the Library. He died on the 8th August, 1873, finally bequeathing the Library to his brother-in-law, the late Mr. Samuel Carter, with a desire "that it should not be dispersed, but should be preserved in an entire state, and so as to be of as much use as possible to such persons as from time to time should be engaged in the pursuit of Electrical science and other cognate sciences."

Mr. Carter considered that he would be best carrying out the wishes of Sir Francis Ronalds by handing the Library over to the Society, which he did upon Trust, the following being the names of the Trustees: Samuel Carter, Esq., Dr. Edmund Ronalds, John Corrie Carter, Esq., John Martineau Fletcher, Esq., Sir William Thomson, F.R.S., D.C.L., Latimer Clark, Esq., M.I.C.E., Charles William Siemens, Esq., F.R.S., D.C.L., and Major (now Lieut.-Colonel) Frank Bolton.

interesting electrical experiments—he was induced to turn his attention to the practical development of the science.

During 1814-15 he wrote several electrical papers, which were published in the *Philosophical Magazine;* and a complete list of these and of his other writings will be found at pp. 488 and 489 of the Ronalds Catalogue.

The name of Ronalds will, however, continue to be best remembered from the fact that as early as 1816 he demonstrated by actual experiment the possibility of an electric telegraph, and showed that electricity could be practically used for conveying messages over long distances.

Being fully cognisant of the difficulties arising from defective insulation, and knowing that those who had previously experimented in the same direction had failed from this cause, he secured the success of his arrangements by adopting for his underground line system of insulation vastly superior to any that had hitherto b employed.

Although the telegraph of Ronalds has been frequently desc and is now tolerably well known to telegraph engineers, a biog notice of its inventor would be incomplete which did not ir short description of it, as well as an account of the reason non-adoption, or at least of its not having been tried on scale than the experimental line which he construc permit of.

The telegraph referred to was erected and worked Hammersmith, and is described and fully illustrated exceedingly interesting work which was published in scarce: a second edition was published in 1871. an extract from this work: "Upon a lawn or gr

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* Description of an Electrical Telegraph, and Apparatus. By Francis Ronalds. Demy 8vo., J

smith* I erected two strong frames of wood at a distance of twenty yards from each other, and each containing nineteen horizontal bars; to each bar was attached thirty-seven hooks, and to the hooks were applied as many silken cords, which supported a small iron wire (by these means well insulated), which (making its inflections at the points of support) composed in one continuous length a distance of rather more than eight miles."

Having made many experiments with this over-head line, which was the longest that had at that time been constructed, he gave his attention to the most suitable line to be adopted for the telegraph which he proposed. This he decided by proposing an underground line, a length of which he constructed and laid down, and which he describes as follows: "A trench was dug in the garden five hundred and twenty-five feet in length, and four feet deep; in this was laid a trough of wood two inches square, well lined on the inside and out with pitch, and within this trough thick glass tubes were placed, through which the wire ran." †

In order to prevent the tubes from breaking by the variation of temperature, each length was laid a short distance from the next length, and the joint made with soft wax. "The trough was then covered with pieces of wood, screwed upon it whilst the pitch was hot; they also were well covered with pitch, and the earth then thrown into the trench again."

The method of conveying intelligence which he adopted may be briefly described as follows:—At each end of the line was placed a clock beating dead seconds, having upon its seconds arbor a light

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* The house at Hammersmith where the line was erected, and where the original experiments took place, is the first large house at the east end of the Upper Mall.

† The first underground line laid by Cooke, between Euston and Camden, in 1837, consisted of solid blocks of wood, in which were cut small grooves for receiving the wires, and which were afterwards filled up by wooden strips.

circular brass plate divided into twenty equal parts. Each division was marked with the letters of the alphabet—leaving out the letters J Q U W X and Z;—there were also a series of figures from 1 to 10, and 10 preparatory signs. Before or over this disc was fixed another brass plate, which had an aperture of such dimensions that whilst the disc was carried round by motion of the clock only one of the letters, figures, or preparatory signs upon it could be seen through the aperture at the same time. In front of the clocks a Canton's Electrometer of pith balls was suspended by an insulated wire communicating with a cylindrical electrical machine of six inches' diameter, which was connected with the line. These clocks were adjusted (by a method described) to go synchronously.

Upon a current being sent from the electrical machine through the line the pith balls diverged, and by noting the letter which appeared through the aperture at the moment, a message could be spelt out—or, as Ronalds says, "by the use of a telegraphic dictionary" (or cod as it would now be called) "a word, or even a whole sentence, co be conveyed by only two or three discharges."

The code, or "dictionary," proposed by Ronalds is describe work, and is accompanied by a plate which represents one l

Having made a large number of experiments with these having thoroughly proved the practicability of his invention upon bringing it to the notice of the Government. Th the 11th of July, 1816, in a letter addressed to Lor First Lord of the Admiralty, as follows:—

"Mr. Ronalds presents his respectful comp Melville, and takes the liberty of soliciting his lo a mode of conveying telegraphic intelligence accuracy, and certainty, in all states of the night or in the day, and at small expense, wh whilst pursuing some electrical experiments pains to ascertain the *practicability* of the

Ronalds, and to a few gentlemen by whom it has been examined, to possess several important advantages over any species of telegraph hitherto invented, and he would be much gratified by an opportunity of demonstrating those advantages to Lord Melville by an experiment which he has no doubt would be deemed decisive, if it should be perfectly agreeable and consistent with his lordship's engagements to honour Mr. Ronalds with a call; or he would be very happy to explain more particularly the nature of the contrivance if Lord Melville could conveniently oblige him by appointing an interview.

*Upper Mall, Hammersmith, July* 11, 1816."

Shortly afterwards Mr. Ronalds received the following in reply:—

"*Admiralty, July 29th*, 1816.

Sir,—I am desired by Lord Melville to acknowledge the receipt of your letter of the 11th instant. His Lordship has left town for some weeks, but he has requested me to see you on the subject of your discovery if you desire it.

I am, Sir,

Your most obedient, humble servant,

— Ronalds, Esq. R. N. Hay."

Mr. Ronalds replied that he did desire an interview, but before the nature of the invention had been made known except to Lord Henniker, Dr. Rees, Mr. Brande, and a few personal friends, he received the following laconic and curious communication from Mr. Barrow (afterwards Sir John Barrow), the Secretary of the Admiralty:—

"Mr. Barrow presents his compliments to Mr. Ronalds, and acquaints him with reference to his note of the 3rd instant, that telegraphs of any kind are now wholly unnecessary; and that no other than the one now in use will be adopted.

*Admiralty Office, 5th August*, 1816."

Sir John Barrow was the author of the article "Telegraph," in the seventh edition of the Encyclopædia Britannica.

Ronalds was too far ahead of his time, and too purely a man of science to secure a hearing for his invention in these early days, and it was left to others to mature his ideas, and to establish the system which his prophetic eye had foreseen would one day transform the world.

In alluding to the above correspondence in a foot-note at page 24 of his work, Ronalds says: "I felt very little disappointment and not a shadow of resentment on the occasion, because everyone knows that telegraphs have long been great bores at the Admiralty. Should they *again* become *necessary*, however, perhaps electricity and electricians may be indulged by his Lordship and Mr. Barrow with an opportunity of *proving* what they are capable of in this way. I claim no indulgence for mere chimeras and chimera framers, and I hope to escape the fate of being ranked in that unenviable class."

It is probable, however, that he did feel some disappointment, for in the preface to his work he speaks of "taking leave of a science which once afforded him a favourite source of amusement," and adds that "he is compelled to bid a cordial adieu to electricity."

The only telegraph which had at that time been erected, and which is referred to in Mr. Barrow's communication, was the semaphore telegraph from Portsmouth to London. This telegraph was used for many years after the date now in question, and was the subject of a parliamentary return in 1843 (twenty-seven years afterwards), hereafter referred to. It was based upon the invention of Chappe, which had been previously used in France, and which was afterwards modified b Colonel Pasley and Sir Home Popham. It was worked by moveabl arms, by means of which signals could be transmitted from stati to station; but it could only be used in the daytime, and then o during fine weather. In foggy or misty weather it was more or difficult and often impossible for one station to see the next, signals could not be communicated; and it sometimes occurred a message would be commenced in London or Portsmouth wb

atmosphere was clear, and its transmission had to be delayed in consequence of some part of the route being enveloped in fog or mist.

In the parliamentary return referred to, bearing date the 2nd May, 1843, it is stated that during three years it was found impossible to use the semaphore from the Admiralty on no less than 328 days: the usual hours of working being from October 1st to February 28th, five hours per day; and from March 1st to September 30th, seven hours per day.

Judged by the light of our present requirements, it is almost impossible to realise the fact that the Government was contented with the means of conveying intelligence between their head-quarters and their principal naval station, then at their disposal, and which found any other telegraph "*wholly unnecessary*."

The semaphore telegraph between London and Portsmouth is stated to have cost £2,000 per annum.

In the work before referred to, Ronalds foretells in a very striking manner the many public uses to which the telegraph was applicable. "Why," he says, "should not our Kings hold councils at Brighton with their Ministers in London? Why should not our Government govern at Portsmouth almost as promptly as in Downing Street? Why should our defaulters escape by default of our foggy climate? Let us have *electrical conversazione* offices communicating with each other all over the kingdom."

The phenomena of the "retardation of current," which so much occupied the attention of electricians and telegraph engineers during the early days of submarine telegraphy, was distinctly foreseen and described in this work.

At pp. 16—20 he provides for repairing the line and discovering faults; and in referring to the line being wilfully damaged, he says: "Should they still succeed in breaking the communication, hang them if you can catch them, damn them if you cannot, and mend it immediately in both cases."

The allusion to the escape of criminals is curious, seeing that a quarter of a century afterwards, one of the first practical uses of the telegraph of Cooke and Wheatstone (and which did more to popularise the telegraph than anything else) was its employment in effecting the capture of the Quaker Tawell, for the murder at Salthill.

The telegraph of Ronalds was worked by frictional electricity, and although in its crude form it might not have been at once capable of doing all that he promised, yet, had the Admiralty given the invention a fair trial in 1816, it might have been easily improved, and the whole history of the telegraph would in all probability have been changed; at any rate its powers would have been exercised, and the world might have profited by its advantages long before 1837.

During the time which elapsed between the erection of the experimental line in 1816 and the publication of the description of it i 1823, Ronalds, who was a philosopher as well as an inventor, w abroad, travelling through Europe to the East; this journey occu between two and three years, and it is interesting to note that d this period he had (it would seem, from some of his letters wr the time) commenced the collecting of a portion of the works which now form the fine library in the possessio Society of Telegraph Engineers.

Besides the description of the telegraph there is incl before-mentioned work "a description of an improv machine; description of a new mode of electrical inst some experiments on Vesuvius; a new electrograph the change of atmospheric electricity; a pendulum attempt to apply M. de Luc's electric column to th time."

Ronalds employed a local carpenter, named J the erection of the telegraph and in laying Eyles died in 1854, but his son, Silas Eyle at the time, and who is now living at Barnes

line which his father assisted to erect. He gave the writer several interesting particulars with reference to some experiments which Ronalds performed before him. One of these experiments was to notice the time which elapsed between the connection of the electric machine with the line and the firing of the cannon at the other end—this he said he was unable to do, the cannon going off at the same moment the connection was made. He remembers Ronalds saying that if the line had been 500 miles long instead of eight the result would have been nearly the same.

The name of Ronalds had been long known to the few interested in the history of the electric telegraph, but public attention was more particularly drawn to his claims during the controversy between Cooke and Wheatstone as to the invention of their electric telegraph, a subject upon which Mr. Latimer Clark has thrown considerable light in his exhaustive Memoir of Sir William Fothergill Cooke.*

Prof. Wheatstone, in his "Reply"† to Mr. Cooke's pamphlet, says that "Mr. Cooke's principle (the principle of reciprocal communication) was no novelty, having formed part of previous inventions, . . especially having been developed completely and effectively by Mr. Ronalds in his telegraph, the description of which was published as early as 1823." In this "Reply" Prof. Wheatstone makes further references to the prior labours of Ronalds. See pp. 9, 17, 24, 64, and 66. Wheatstone, then a boy of about 15, was present at many of the principal experiments at Hammersmith.

It is a singular fact that Ronalds was well acquainted with Mr. Cooke, the father of the late Sir William Fothergill Cooke, as is shown by the following extract from Ronalds' diary, dated Dec. 14, 1855 :—

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* Journal of the Society of Telegraph Engineers, Part xxviii. vol. viii. p. 361, 1st part, 1879.

† Reply to Mr. Cooke's Pamphlet, "The Electric Telegraph: Was it Invented by Professor Wheatstone?" Demy 8vo. London, 1855.

"At about the time of my having completed my electric t
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our family, and father of Mr. W. F. Cooke, called on us at the U
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and proved the perfect practicability for general use of my telegr
making him the recipient of many messages by it, from the r
over the coachhouse to the little toolhouse at the end of the gar
and receiving messages in return from him. Mr. W. F. Cooke w
very young boy at this time."

In a letter to Mr. Ronalds, dated 11th December, 1866, (afterwards Sir) Wm. F. Cooke, writes:—

"Many years ago, when you were a young man and I was a
my father, afterwards Dr. Cooke, of Durham, lived at Brentford
think I recollect your living at Mrs. Hanin's cottage in the Butt
I am right it is a singular fact that two men so much associat
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a flourish of the needle right and left, and the letters
the needle pointing in that direction."

Mr. Ronalds, in his reply to this letter dated ?
says:—

"It must have been your acquaintance with
Ronalds to which you refer; but I had th
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previous labours. I much regret that you had not then seen my little work of 1823, in which they were fully detailed. Mr. Wheatstone, whom I had long known, was well acquainted with what I had done: it would seem, indeed, that two figures in the second plate of that pamphlet were closely imitated in your specification of 1840."

It should be added that Ronalds took out no patent, but was contented with publishing his invention to the world. The first patent for an electric telegraph was granted to Cooke and Wheatstone in 1837, for "Improvements in giving Signals and Sounding Alarums in distant places by means of electric currents transmitted through metallic circuits."

While there can be no doubt that Wheatstone was perfectly acquainted with the previous labours of Ronalds, the fact that Cooke was not so acquainted is to a great extent proved by the following letter from Mr. Cooke, written more than three years after the date of Cooke and Wheatstone's first patent, and which exists among the manuscript papers in the Ronalds Library:—

"1, *Copthall Buildings, 4th December*, 1840.

MY DEAR SIR,—I have been trying for some time to borrow an account of Mr. Ronalds' electric telegraph published by him.

Meeting you yesterday reminded me that you were acquainted with Mr. R., and I shall esteem it a favour if you will procure the loan of it for me as soon as you can.

The Parcel Delivery Co. would deposit it at the above address, or at 51, Notting Hill-square.

Yours very truly,

George Cooper, Esq. WM. F. COOKE."

Mr. Cooper was known to Ronalds, and the above letter undoubtedly came into the latter's possession when the book referred to was borrowed for Mr. Cooke.

It only remains to be added that after a lapse of nearly fifty years

"At about the time of my having completed my electric telegraph, Mr. Cooke, then a surgeon at Brentford, well acquainted with our family, and father of Mr. W. F. Cooke, called on us at the Upper Mall, Hammersmith, on which occasion I explained to him minutely and proved the perfect practicability for general use of my telegraph, making him the recipient of many messages by it, from the room over the coachhouse to the little toolhouse at the end of the garden, and receiving messages in return from him. Mr. W. F. Cooke was a very young boy at this time."

In a letter to Mr. Ronalds, dated 11th December, 1866, Mr. (afterwards Sir) Wm. F. Cooke, writes:—

"Many years ago, when you were a young man and I was a boy, my father, afterwards Dr. Cooke, of Durham, lived at Brentford. I think I recollect your living at Mrs. Hanin's cottage in the Butts. If I am right it is a singular fact that two men so much associated with the Electrical Telegraph should have been resident in the same small town. I have often thought what a fortunate thing it would have been if I had known of your labours in 1837. Letters of the alphabet, three letters in a row, might have been distinguished by your clocks by movement of a needle to the left, the middle row of the letters by a flourish of the needle right and left, and the letters to the right b the needle pointing in that direction."

Mr. Ronalds, in his reply to this letter dated 3rd January, 18(
says:—

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a portion of this telegraph was discovered in the garden at Hammersmith. It is thus described by Mr. J. A. Peacock in a letter to Sir Francis Ronalds of the 6th December, 1871, informing him that a portion of his telegraph, together with a copy of his book, had been placed in the Museum of the Pavilion at Brighton:—

"About five or six years ago I was in the garden (then rented by a friend of mine) wherein this telegraph was laid down, when it was dug for and found after a lapse of upwards of forty years, what was then found and seen agreeing with the descriptions given in the book. Several yards of copper-wire were found where the ground had not been disturbed, by reason of a large rustic garden seat and alcove having been over it; a glass tube, or the greater part of one, with the copper wire in it (page 6*); and one of the joints with a short tube (glass) (plate 2, fig. 1*) were also found: the copper-wire seemed to be in perfect order. The wooden trough and pitch (page 6*) had become consolidated with the earth, which was as hard as, and formed an opening like that of a drain tile, or the run of a burrowing animal."

This specimen, together with the original model of the dial made by Ronalds in 1816, is now in the possession of Mr. Latimer Clark, M.I.C.E.

Mr. Thomas Gibson, writing on the 1st April, 1870, says:—

"How well I remember when a schoolboy, fifty-five years ago, seeing the clock apparatus in your little upper room over the stable, connected with another at the bottom of the garden, of the meaning of which I had but a very hazy apprehension; also the lines of wire stretched from frame to frame across the grassplot."

In 1825 Ronalds invented a perspective tracing instrument to facilitate drawing from nature, or from plans and elevations, a description of which he published, in 1828, in a work entitled "Mechanical

* Description of an Electrical Telegraph, &c. By Francis Ronalds. 1823.

Perspective." During his travels he gave considerable attention to the curious Celtic antiquities, as at Stonehenge and other places, and he was enabled by means of his perspective tracing instrument, assisted by Dr. Blair, to procure exact perspective projections, taken from given noted stations, of the Celtic remains at Carnac, in Brittany. The result of these labours was published by Mr. Ronalds and Dr. Blair in 1836, entitled "Sketches at Carnac; or, Notes concerning the present state of the Celtic Antiquities in that and some of the adjoining Communes." A description of this instrument was also published in a small quarto pamphlet, with illustrations.

Ronalds appears to have been an excellent workman, turning being his favourite pursuit. He has left behind several small specimens of his work, which show a high state of proficiency in the art. He contemplated the publication of a work upon this subject, and although a considerable portion was put into type, and several drawings for it were made, it was never published. There is no doubt he intended to make this work a most complete practical treatise on the subject, introducing many new contrivances and arrangements for delicate turning, and he also had the idea of adding an appendix of the names of tools, &c. in several languages, a part of this having been commenced.

At a meeting of the Council of the British Association for the Advancement of Science, held March 28th, 1842, Sir Roderick Murchison stated that he had reason to believe that the "building in Richmond Park formerly used as a Royal Observatory"* might, upon proper application being made to Her Majesty, be placed at the disposal of the British Association for scientific purposes; the Royal Society, to whom the building had in the first instance been offered, having declined its acceptance. An application was afterwards made, and the Kew Observatory was, on the 26th May, 1842, placed at the

* This observatory was built for George III. about 1780, by Sir Wm. Chambers.

disposal of the Association. Early in 1843 Ronalds was appointed its first Honorary Director and Superintendent, which post he held for nine years. During this period he made several full and exhaustive reports to the British Association, of which body he was for many years a Member of Council.

In the report read at the annual visitation of Greenich Observatory, June 1, 1844, the Astronomer Royal says :—

"In the autumn of last year I had an opportunity of examining the beautiful arrangements of the atmospheric electrometer at the Kew Observatory, which have been made under the superintendence of Professors Wheatstone* and Francis Ronalds, Esq., and it was impossible to see these without perceiving that considerable improvements might be made in our own by following the same plan, with such alterations as the difference of local circumstances rendered necessary."

In the appendix to Kaemtz's Meteorology,† Mr. C. V. Walker, F.R.S., says :—

"The electricity of the atmosphere is a branch of meteorology which has been cultivated on no settled and systematic manner until the present time. Indeed the observations that have been made at the Kew Observatory, a description of which it is our present purpose to give, constitutes so novel a feature in the science that Mr. Ronalds, whose whole time and talents appear to be enthusiastically devoted to perfecting them, says in the report submitted to the British Association at the meeting at York (1844), that they must be rather regarded as experimental and educational than otherwise. As the admirable arrangements at this Observatory will form a model for the guidance of others, we will give them in detail."

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* Ronalds always denied, and has left his denial on record, that Wheatstone had any share whatever in the invention of the apparatus at Kew for registering atmospheric electricity.

† A Complete Course of Meteorology by L. F. Kaemtz, translated with notes and additions by C. V. Walker. London. 8vo. 1845.

On the 1st February, 1844, he was elected a Fellow of the Royal Society, and was admitted on the 29th, at the same time as Dr. Carpenter.

It is not generally known that Ronalds, during the time he occupied the position of Director of Kew Observatory, invented many important instruments, which have in no small measure advanced the science of meteorological and magnetical observation; his system of self-registration by photography* alone being sufficient to render his name famous.

In pursuance of proposals made to the British Association in 1840-1 and 1844,† Ronalds commenced in 1845, at Kew Observatory, a series of experiments on the photographic registration of all meteorological and terrestro-magnetical instruments. The first successful attempts were made in August, 1845, upon an atmospheric voltaic electrometer, a thermometer, a barometer, and a declination magnetometer. On the 24th September of the same year he obtained the first good specimen of registered atmospheric electricity, and on the 25th and frequently afterwards the apparatus which he had constructed enabled him to observe that under certain circumstances the electric potential increased with the light of the sun, but that such increased potential did not continue.‡

The Royal Society made a grant of £50 from the Wollaston Donation Fund to assist in the construction of the apparatus devised by Ronalds, for the self-registry of magnetical and meteorological instruments. In 1851 the Royal Society made a further grant of £100 to Ronalds for the purpose of an experimental trial of his self-registering instrument for six months. These experiments were commenced in April, and were being continued in January, 1852.

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* Philosophical Transactions of the Royal Society for 1847, Part i. p. 111.

† *Vide* Report of British Association held at Southampton, 1846.

‡ *Vide* pp. 7 and 8, Epitome of the Electro-Meteorological and Magnetical Observations, Experiments, &c., made at Kew Observatory under the direction of Francis Ronalds, 8vo. pamph., Chiswick, 1848.

With reference to these grants it may be well to mention that Ronalds bequeathed a sum of £500 to the Royal Society, as set forth in the following extract from his will:—"I bequeath to the President, Council, and Fellows of the Royal Society the sum of five hundred pounds, in trust, for the augmentation of the Wollaston Fund, and in recognition of the advantages I derived, when Honorary Director of the Kew Observatory, from grants which I received from that Fund in aid of my not unsuccessful inventions of photographic instruments for the registration of terrestrial magnetism, atmospheric electricity, and other meteorological phenomena."

From a minute of the Council of the British Association at the meeting at Belfast, September 1, 1852, the following is extracted:—

"The experimental trial of Mr. Ronalds' magnetograph, which was in progress when the last report of the Council was made, has been completed, and detailed statements of the performance of each of the three instruments have been furnished by Messrs. Ronalds and Welsh, and are inserted in the Report of 1851. The Council have great pleasure in referring to these statements, as showing that Mr. Ronalds' adaptation of photography to record the magnetic variations is an effective and practically useful invention, supplying to those who may desire it the means of making and preserving a continuous registry of the phenomena."

During August, 1846, many of the magnetic photographs were submitted to a rigid comparison with the corrected readings of the Greenwich Observatory by Mr. Glaisher, the result being, as declared by him, "highly satisfactory."*

The self-registering barometer was in 1870, and probably now is, employed in the Meteorological Observatories instituted by the Board of Trade.

At a meeting of the Council of the British Association on the 8th

* Report of the Committee of the Kew Observatory, Aug. 9, 1849, signed on behalf of the Committee by Sir J. F. W. Herschel.

May, 1846, it was resolved "That the Kew Observatory be maintained in its present state of efficiency;" because, after stating several other reasons, it appeared, both from the publications of the British Association and from the records of the establishment, that the systematic inquiry into the intricate subject of atmospheric electricity carried out by Mr. Ronalds had been productive of very material improvements in that subject, and had, in effect, furnished the model of the processes conducted at the Royal Observatory, and because those inquiries were still in progress.

The Toronto and Madrid Observatories were furnished with the self-registering instruments of Ronalds, the manufacture of them being carried out under his superintendence. Besides which he received application for advice and assistance from the Sardinian Government respecting meteorological instruments; also from the Oxford Observatory for a barometrograph and thermometrograph; and from the Astronomer at Trevandrum for electrical apparatus similar to that at Kew.*

Some of the original models of Ronalds' instruments are now in the South Kensington Museum.

The electrometers and electric-spark measurers used at the Greenwich Observatory in 1844, and for many years afterwards, were constructed from plans designed by Ronalds, and similar to those he had constructed for the Kew Observatory.

On the application of the Marquis of Northampton and Sir John Herschel, Her Majesty's Government granted to Ronalds a pecuniary recompense of £250 for his invention of photographic self-registering magnetical and meteorological apparatus. It will be remembered that Mr. Brooke also received a pecuniary recompense from the Government for his apparatus for similar purposes, which were invented about the same time, and which are fully described in

* See Minute of Council of British Association, November 29, 1852.

the Philosophical Transactions for 1846. As regards the priority of invention or the relative merits of the two systems, it may be observed that the matter had long before 1846 occupied the attention of Ronalds, and that we find him in 1840-41 and 1844 making proposals to the British Association on the subject, and that his first successful photographs were produced in August, 1845.

His apparatus for taking electrical observations was also adopted at the Royal Observatory at Greenwich.

In 1847 Ronalds made with Dr. Birt an experiment in which they sought to maintain a kite at an almost invariable given altitude, by the employment of three cords attached to it, and to points forming a triangle on the earth. This experiment was quite successful, and a short account of it was published in the Philosophical Magazine for September, 1847.

In 1852 Ronalds retired from the direction of Kew Observatory, where he had for nine years contributed so much to the advancement of electrical and magnetical observation, and his several reports to the British Association bear witness to the extent of his knowledge of the subject, and to the interest he felt in everything appertaining to it. On his retirement he received a grant from the Crown, on the recommendation of Lord Derby's Government, of a small pension of £75 per annum, for (as is stated in the warrant) his "eminent discoveries in electricity and meteorology."

After his retirement from Kew he lived for many years abroad, principally in Italy, where he continued the compilation of his Catalogue of Works on Electricity, Magnetism, and the Electric Telegraph, which, together with the formation of the "Ronalds Library," afforded him occupation during the remainder of his life.

There are in the library of the Society several interesting and curious unpublished MSS. upon various subjects by Ronalds, among which may be mentioned, the heads of a proposed History of

Electricity, Journal of a Tour in the Mediterranean, Egypt, Syria, Greece, &c. in 1819-20; Fires, Meteorology, Drawing, Surveying, &c.

A short biographical sketch of Ronalds (and others) was published by Wm. Walker,* to accompany the well-known engraving of "The Distinguished Men of Science of Great Britain, living in 1807-8, assembled at the Royal Institution," in which Ronalds' portrait appears; and it is interesting to note that for a great number of years Ronalds was the only surviving member of the group.

In 1866 a letter was addressed to Lord Derby, modestly setting forth the early labours of Ronalds, but Mr. Barrington, in a letter to Mr. Samuel Carter, says that Lord Derby "declines re-opening the question of honours for the invention of the electric telegraph, in consequence of the length of time that has passed since the name of Ronalds has been connected with the invention."

At the Paris International Exhibition of 1867, the British Commissioners placed in one of the windows of the Machinery Gallery allotted to Great Britain a blind upon which was painted a diagram showing the instruments used by Ronalds in his telegraph of 1816.

In February, 1870, a memorial was addressed to the Right Hon. W. E. Gladstone on the subject of the invention of the electric telegraph, and on March 31, 1870, Ronalds received the honour of knighthood; Her Majesty's intention of conferring this mark of distinction being conveyed to him in a letter from Mr. Gladstone as follows:—

"*Carlton House Terrace, S.W., March 28th,* 1870.

SIR,—I have great pleasure in announcing to you, that in acknowledgment of your early and remarkable labours in telegraphic

* Memoirs of the Distinguished Men of Science of Great Britain living n the year 1807-8, and Appendix, compiled and arranged by William Walker, un. 2nd edition. London, 1864.

investigations, Her Majesty will be pleased to confer upon you the honour of knighthood.

It is highly agreeable to me to make this communication, and
I have the honour to be, Sir,
Your very obedient and faithful servant,
W. E. GLADSTONE."

Sir William Fothergill Cooke, in a congratulatory letter to Sir F. Ronalds, says: "It is a singular fact that Brentford should have furnished two of the men who were most practical in their original views; I might say *the only two men* who up to the year 1837 realised in their minds the electric telegraph as a *future fact*.

"I have before said that you were *before* the time. Had you taken the subject up again in 1835, it would have been all your own, I fully believe, or had we jointly taken it up in 1836, we should have divided the honours.

"May you long be spared to enjoy the ephemeral honour: which, however, so granted, links your name with one of the greatest adaptations of science the world can ever know; next in usefulness to printing; in its character, the most marvellous development of the Creator's powers vouchsafed to the practical service of man. To Him be the glory! to us the deep and abiding satisfaction of being His instruments."

During the fierce controversy which raged between Cooke and Wheatstone as to their relative merit in the invention of *their* electric telegraph, the modest claims of Ronalds—the pioneer—were well-nigh forgotten; and he had to thank his good constitution for having lived to see his early labour recognised. However valueless the honour of knighthood may have been to a man 83 years of age, it is still gratifying to know that that honour, though tardily given, was appreciated by one who has rendered such signal service to electrical science, and who must always stand as the first of English Telegraph Engineers.

In the *Illustrated London News* of the 30th April, 1870, will be found a good portrait of Ronalds, together with a description of his telegraph illustrated from the plates given in the work of 1823.

There is a fine marble bust of Ronalds in the library of the Society of Telegraph Engineers, by Mr. Edward Davis, presented to the Society by their first president, Dr. C. W. Siemens, F.R.S.

There is also in the possession of Mrs. Samuel Carter a fine oil painting of Ronalds by Mr. Hugh Carter.

Ronalds, who was never married, was a man of extremely sensitive temperament and of very retiring manners, and this may in a great measure account for his inventions never having been brought prominently before the public. His whole life was devoted to science, without any pecuniary reward, with the exception of the small Civil List pension, his small patrimony being expended in his experiments, and in the formation of the Ronalds Library.

He resided during the last ten years of his life at Battle, in Sussex, in order to be near his sister, the wife of Mr. Samuel Carter. His niece, Miss Julia Ronalds, lived with him up to the time of his death, and devoted herself to his declining years, besides materially assisting him during the latter part of his life in the compilation of his Catalogue. He died on the 8th August, 1873, and was buried at Battle.

# THE

# RONALDS CATALOGUE.

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Works marked thus † are in the Library.
" " " * are Meteorological, &c.

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† **Abbadie,** A de. Sur le Tonnerre en Ethiopie. 4to. 158 pp. *Paris*, 1858
Mémoire sur un Météore (le Quobar) qu'il a aperçu sur différents points du globe: et Rapport sur le Météore. M. Petit, Rapporteur. 8vo. 9 pp. (*Toulouse, Acad. 3me Série*, v. 303.) *Toulouse*, 1849

† **Abeille,** J. L'electricité appliquée à la thérapeutique chirurgicale, et, en particulier, au traitement des accidents produits par les inhalations d'éther et de chloroforme. 8vo. 110 pp. *Paris*, 1870

† **Abel,** F. A. Account of recent researches on the application of Electricity from different sources to the Explosion of Gunpowder. 8vo. 35 pp. *(Reprinted from the Quarterly Journal of the Chemical Soc.)* *London*

**Abernethy,** John. *Born* 1763 *at Abernethy; died April* 20, 1831, *at Enfield.* *(Very celebrated Surgeon in London.)*
Surgical and physical essays. *London*, 1796
Inquiry into the rationality of Mr. Hunter's theory of life. (*Zantedeschi, Trattato* ii. *Torpedo.*)

† **Abich,** H. Ueber einen bei Stawropol gefallenen Meteorstein. 8vo. 37 pp. *Mosk (Moscow)*, 1860

† Die Fulguriten im Andes und kleinen Ararat, nebst Bemerkungen über örtliche Einflüsse bei der Bildung elektrischer Gewitter. 8vo. 11 pp. *Wien*, 1869

**Abilgaard,** Peter Christian. *Born December* 22, 1740, *at Kopenhagen; died January* 21, 1801, *at Kopenhagen.*
- Tentamina electrica. (*Vide* Van Troostwyk and Krayenhoff, 1788.)

† **Abraham,** J. H. On new phenomena caused by the effect of Magnetic and Electric Influence, and suggestions for ascertaining the extent of the terrestrial magnetic atmosphere. 8vo. 6 pp. (*Phil. Mag.* i. 266.) *London*, 1827

† (On) Neutralizing the Magnetism of Watch-work. 8vo. 1 p. (*Phil. Mag.* i. 470.) *London*, 1827

† **Abria.** Anémomètre electro-magnétique. (*Vide* Moigno, 1852.) *Bordeaux*
Sur quelques propriétés physiologiques des courants d'induction. 8vo. 11 pp. *(Actes de l'Acad. de Bordeaux.)* *Bordeaux*, 1842

† Recherches galvanométriques sur les lois de l'induction des courants par les courants. 8vo. 11 pp. (*Actes de l'Acad. de Bordeaux.*) *Bordeaux*, 1844

† Sur la déclinaison, l'inclinaison, et l'intensité magnétique à Bordeaux, 8vo. 8 pp. (*Actes de l'Acad. de Bordeaux.*) *Bordeaux*, 1848

**Abria**—*continued.*

† Rapport sur un Discours de *Gavarret* le 14 Novembre, 1848. 8vo. 4 pp. (*Actes de l'Acad. de Bordeaux.*) *Bordeaux*, **1852**

† Rapport sur l'appareil Fragneau destiné à prévenir les rencontres des trains de chemins de fer. 8vo. 8 pp. (*Actes de l'Acad. de Bordeaux.*) *Bordeaux*, **1853**

† Démonstration de plusieurs formules de *Gauss* relatives à l'action mutuelle de deux aimants. 8vo. 16 pp. (*Ext. des Mém. de la Faculté de Bordeaux.*) *Bordeaux*, **1861**

† Various Observations of Inclination and Declination. *Bordeaux*

**Academia de Madrid.** Memorias de la Real Academia de Ciencias. 4to. *Madrid*, **1850-51**

**Academia Moguntina Scientiarum.** (*Vide* Erfurt.)

**Academia Naturæ Curiosorum.** (*Vide* Breslau.)

**Académie de Paris.** (*Vide* Paris Academy.)

**Académie de Toulouse.** Histoire et Mémoires. (*Vide* Toulouse Academy.)

**Academy, Swedish.** (*Vide* Schwedischen Akadem and Svenska Academien.)

**Accademia degli Aspiranti Naturalisti di Napoli.** Annali; Bullettini; Esercitazioni. (*Vide*, for each head, Naples, Accademia degli Aspiranti.)

† Atti dei Congressi degli *Scienziati Italiani* raccolti dall' Accademia. Con Note dell' Editore Presidente della stessa (*i.e. Dr. Leonardo Dorotea.*) 4to. 6 vols. *Napoli*, **1844-45**

**Accademia del Cimento.** Saggi di naturali esperienze, descritte dal Segretario. 8vo. 2 vols. *Milano*

† Saggj di naturali esperienze fatte nell' Accademia del Cimento, e descritte dal Segretario. fol. 269 pp. *Firenze*, **1666**

† Saggj di naturali esperienze fatte nell' Accademia del Cimento, sotto la protezione del Serenissimo Principe Leopoldo di Toscana, e descritte dal Segretario di essa Accademia. fol. 269 pp. (*reprint*) *Firenze*, **1667**

† Essays of natural experiments made in the Accademia del Cimento. (Englished by Rd. Waller.) 4to. 19 plates. 180pp. *London*, **1684**

† Saggj di naturali esperienze, descritte dal Segretario. 2ª edizione. fol. 269 pp. *Firenze*, **1691**

† Tentamina, &c. *Musschenbrock.* 4to. (*Vide* Musschenbrock, 1731.) **1731**

† Saggi di naturali esperienze fatte nell' Accademia del Cimento, e descritte dal Segretario di essa Accademia. With life of *Magalotti*, by Manni. 8vo. *Venezia*, **1761**

Saggi, with additions by Tozzetti. Aggrandimenti, Notizie, &c. 4to. (*Vide* Tozzetti, 1780.) **1780**

Saggi di naturali esperienze fatte nell' Accademia del Cimento. Terza edizione *Fiorentina*: preceduta da notizie istoriche dell' Accademia stessa e seguitata da alcune aggiunte (di Gazetti Antinori.) 4to. *Firenze*, **1841**

Aggiunte ai Saggi. (*Vide* Gazzeri, 1841.) *Firenze*, **1841**

† Intorno ad una nuova edizione dei Saggi. Relazione di Belli. 8vo. 14 pp. (*Giorn. I. R. Instit. Lomb.* iii. 183.) *Milano*, **1842**

**Accademia Italiana.** Atti dell' Accademia Italiana. 4to. *Firenze*, **1808**

**Accademia Reale di Modena.** (*Vide* Modena Academy).

**Accademia di Napoli.** Atti dalla fondazione sino al 1787; Atti della Sezione Borbonica; Rendiconto delle Adunanze, 1842; Memorie dal 1852 in avanti. (*Vide*, for each head, Naples Academy.)

**Accademia di Padova.** Saggi; Memorie; Nuovi Saggi; Rivista Periodica; Catalogo di Libri. (*Vide*, for each head, Padua Academy.)

**Accademia Petropolitana.** (*Vide* Petersburg Academy.)

**Accademia Pontificia dei Nuovi Lincei.** Atti dell'. 4to. *Roma*

**Accademia di Siena.** (*Vide* Siena.)

**Accademia Théodoro Palatina.** (*Vide* Manheim.)

**Accademia di Torino.** (*Vide* Turin Academy.)

† **Acerbi** G. Notice of. *Born at Castelgoffredo May* 3, 1773; *died August* 25, 1847. Published in London in 1802, in English, Journey to the North Cape by Sweden, Finland, and Lapland (query anonymously). He established the Biblioteca Italiana in 1816. (*Giorn. I. R. Instit. Lomb.* xvi. 13.)

**Achard,** Franz Carl. *Born April* 28, 1753, at Berlin; *died April* 20, 1821, *at Kunern.*

Abhandlung der Theoretischen und Practischen Lehre von der Electricität.

Von den Electrischen Erscheinungen, die durch Reiben des Quecksilbers auf verschiedene, vorzüglich harzige Körper hervorgebracht werden. (*Beschaft. der Berliner Gesellsch. Naturf.*) *Berlin,* 1775

Sur l'électricité de la Glace. (*Journ. litt. de Berlin,* 1776.) *Berlin,* 1776

Ueber die Kraft der Elektricität verglichen mit der Schwere. (*Beschaft. Naturf. Gesellsch. Berl.* i. 1775.) *Berlin,* 1775

Von den Elektrischen Erscheinungen durch Reiben des Quecksilbers. (*Beschaft. Naturf. Gesellsch. Berl.* ii. 1775.) *Berlin,* 1775

Ueber die Kraft der Elektricität, verglichen mit der Kraft der Schwere. 8vo. (*Reuss. Rep.* iv. 351.) *Berlin,* 1775

Expériences sur l'Electrophore, avec une théorie de cet instrument. 4to. (*Mem. de Berlin,* 1776, 122.) *Berlin,* 1776

Expériences sur la célérité avec laquelle les corps de différentes figures se chargent du fluide électrique; et sur le rapport entre la quantité qu'ils en absorbent et la distance à laquelle ils sont d'un corps électrisé. 4to. (*Mem. de Berlin,* 1777, 25.) *Berlin,* 1777

Sur l'analogie qui se trouve entre la production et les effets de l'électricité et de la chaleur; avec la description d'un instrument nouveau propre a mesurer la quantité de fluide électrique que peuvent conduire des corps de différentes natures placés dans les mêmes circonstances. 4to. (*Mem. de Berlin,* 1779, 27.) *Berlin,* 1779

† Dissertazione sulla differenza fra i corpi elettrici e i conduttori. 4to. 11 pp. (*Opus. Scelti,* iii. 313.) *Milano,* 1780

Expériences qui prouvent que les corps se chargent en raison de leur surface. 4to. (*Mem. de Berlin,* 1780, 47.) *Berlin,* 1780

Sammlung physik. und chemischer Abhandlungen. 8vo. *Berlin,* 1784

† Schriften (chymisch-physik). 8vo. *Berlin,* 1780

Vorlesungen über die Experimental-Physik. 8vo. *Berlin,* 1791

Kurze Anleitung, ländliche Gebäude gegen Gewitter-Schaden sicher zu stellen. 8vo. 78 pp. *Berlin,* 1798

Mémoire renfermant le récit de plusieurs expériences électriques faites dans différentes vues. 4to. (*Mem. de Berlin,* 1781, 9.) *Berlin,* 1781

† Articolo di Lettera al Landriani sull' Elettricità. 4to. (*Opus. Scelti,* v. 351.) *Milano,* 1782

† Relazione delle Sperienze dell' Achard, per decidere se i corpi ricevano, e disperdano l'elettricità in ragione delle superficie, o delle masse. 4to. (*Opus. Scelti,* vi. 199.) *Milano,* 1783

Observations sur l'électricité terrestre (*Mem. de Berlin,* 1786, 13.) *Berlin,* 1786-87

Sur l'irritation des nerfs et les contractions musculaires. 4to. (*Mem. de Berlin* 1790-91, 1, 14, 27.) *Berlin,* 1790-91

**Ackermann,** Johann Friedrich. *Born February* 3, 1726; *died June,* 1804, *at Kiel.*

On the Contact Theory. (*Salzb. Mediechirurg.,* 1792, 287.) *Salzburg,* 1792

Versuch einer physischen Darstellung der Lebenskräfte organisirter Körper. 2 (or more) vols. 8vo. *Frankfurt,* 1798

**Ackermann**—*continued.*

Nachrichten von der sonderbaren Wirkung eines Wetterstrahles. 8vo. *Kiel*, **1772**
Programma, quo morbus et sectio fulmine nuper adusti enarratur. 4to. *Kilæ*, **1774**

**Acqua.** (*Vide* Dell' Acqua.)

**Acta eruditorum Lipsiensia.** (*Vide* Leipsig.)

**Acta Helvetica.** (*Vide* Basle.)

**Acton,** J., and **Lofft,** Capel. On the probability of Meteorolites being projected from the Moon. Galvanic and electrical experiments by Mr. Acton. 8vo. (*Phil. Mag.* li. 109.) *London*, **1818**

**Adams,** Dudley. Electricity in the formation of nature. 8vo. 15 pp. *London*, **1820**

A trifle or sketch, wherein the science and elements of Electricity are developed in a few books. 4to. *London*, **1823**

**Adams,** George. *Born in* 1750 *at Southampton; died August* 14, 1795, *at Southampton.*

† An Essay on Electricity; to which is added an Essay on Magnetism. 1st edition, 8vo. 367 pp. *London*, **1784**

† An Essay on Electricity and the mode of applying it to medical purposes; with an Essay on Magnetism. 2nd edition, corrected and enlarged. Frontispiece and 7 plates. 8vo. 476 pp. *London*, **1785**

† Versuch über die Elektricität durch eine Menge methodisch-geordneter Experimenta erläutert; nebst einen Versuch über den Magnet. 6 plates, 8vo. 270 pp. *Leipzig*, **1785**

† An Essay on Electricity; with an Essay on Magnetism. 3rd edition. Frontispiece, 7 plates, and 1 plate (belonging to the Supplement). 8vo. 468 pp. *London*, **1787**

† Essay on Electricity; to which is now added a Letter to the Author from Mr. John Birch on the subject of Medical Electricity. 4th edition. 5 plates and frontispiece. 8vo. 588 pp. *London*, **1792**

An Essay on Electricity; to which is added a Letter to the Author from Mr. John Birch on the subject of Medical Electricity. The 5th edition, with corrections and additions, by Wm. Jones. 8vo. 7 plates. 594 pp. *London*, **1799**

**Adamson,** J. C. Notes on certain modes of measuring minute Intervals of Time. 4to. (*Trans. American Phil. Soc., New Series*, xi.) *Philadelphia*, **1857**

**Adanson,** Michel. *Born April* 7, 1727, *at Aix; died August* 3, 1806, *at Paris.* (Poggendorff, i. 11, says that he first made known, in 1751, the Silurus electricus, and compared its shock with that of the Leyden phial. *Vide* Humboldt's Voyage au Senegal, pt. ii. Zoologie, p. 59. "Il a le mérite d'avoir reconnu le premier, en 1751, l'analogie des effets de ces poissons (le Gymnotus) avec ceux d'une bouteille de Leyde, mérite que l'on a faussement attribué à S'Gravesande et à Walsh."—Voyage au Sénégal about 1757. *Vide* Humboldt.)

† **Addenet,** R. F. Nouvelle théorie de l'Electricité et de la Nécessité des Forêts pour l'Agriculture et le Bien-être général. 8vo. 150 pp. *Paris*, **1843**

† **Adley,** C. C. The story of the Telegraph in India. 94 pages and 1 map. 8vo. *London*, **1866**

**Admiralty Manual of Scientific Enquiry.** *Vide* Herschell, Sir John.

Ditto. Deviation of the Compass. *Vide* Evans and Smith.

**Adsigerius,** Peter. (This is Peter Peregrinus. *Vide* Wenckebach.)

† **Æpinus,** Franz Ulrich Theodor. (*Born December* 13, 1724, *at Rostock; died August* 10, 1802, *at Dorpat.*)

Mémoires concernants quelques nouvelles expériences électriques remarquables. 4to. (*Mem. de Berlin*, p. 105.) *Berlin*, **1756**

† Sermo Academ. de similitudine vis electricæ atque magneticæ. 4to. 32 pp. *Petropoli*, **1758**

Descriptio ac explicatio novorum quorumdam experimentorum electricorum. 4to. 26 pp. (*Novi Comment. Acad. Petrop.* vii. 1761, 22 and 277.) *Petropoli*, **1758-59**

**Æpinus**—*continued.*

† Tentamen theoriæ electricitatis et magnetismi. Accedunt Dissertationes duæ quarum prior phænomenon quoddam electricum, altera, magneticum, explicat. 7 plates. 4to. 390 pp. *Petropoli*, 1759

Rede über die Aehnlichkeit der magnetischen Kräfte. 8vo. *Leipzig*, 1760

† Recueil de différents Mémoires sur la Tourmaline. 5 plates. 8vo. 193 pp. *Petersburg*, 1762

† Additamentum ad Dissertationem de experimento magnetico, celeberr. Domini du Fay, continens nova experimenta magnetica detecta et explicata. 1 plate. 4to. 12 pp. (*Novi Comment. Acad. Petrop.* ix. 1864, p. 340.) *Petropoli*, 1762-63

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† (N***, l'Abbé.) Principes d'Electricité. Ouvrage traduit de l'Anglois par l'Abbe N*** auquel on a joint certaines notes interessantes et propres à confirmer les principes nouveaux de l'illustre Auteur (*i. e.* Lord Mahon). 8vo. 250 pp. 6 plates. (*Nollet died* in 1770). (*Vide* Lord Mahon, 1780.) *London*, 1781

† Dell' efficacità dei conduttori elettrici, Dubbj proposti ai Fisici moderni. 8vo. 1784

Materialien für Elektriker. 1er Lieferung. 8vo. (*Poggendorff*, i. 22, *says by Albanus.* (*Vide* Albanus.) *Halle*, 1788

Materialien für Elektriker. 2e Lieferung. *Halle*, 1790

(C. L.) Briefe über Electricität. 8vo. 1789

Revision der vorzüglichen Schwierigkeiten in der Lehre von der Elektricität. 8vo. (*Vide* Heinsius, iii. 373.) *Heidelberg*, 1789

† Intorno all' influenza dell' elettricità nel moto muscolare, &c. 8vo. 3 plates. (*Gior. Fis. Med.* i. 280. *Repetition of Galvani's experiments by Volta, Rezia, and Brugnatelli.*) *Pavia*, 1792

Lettre d'un ami au comte Prospero Balbo. (Sur les expériences de Galvani.) *Bibliotèque de Turin*, i. 261, 1792, *Mars.*) *Turin*, 1792

† Ragguaglio delle sperienze del Galvani sull' elettricità animale, estratto da una lettera al Conte Balbo. 8vo. 16 pp. (*Gior. Fisico-Medico di Brugnatelli*, ii. 94 *and* 97.) *Pavia*, 1792

Expériences galvaniques verifiées jusqu'à présent à l'école de Médecine au moyen de l'appareil imaginé par le Dr. Volta. 4to. (*Soc. Philomath, An.* 4, ii. 165.) *Paris*, 1796

† Esperienze galvaniche verificate alla Scuola di Medicina. 8vo. (*In Annali di Chimica di Brugnatelli*, xviii. 175. *Also in Magazin Enciclop.* No. 16.) *Pavia*, 1806

Introduzione all' Elettricita ; che contiene le nozioni esatte del fuoco elementare colla loro applicazione. 8vo. (*Opusc. Scelti* (*in* 4to.), xii. 23.) *Madrid*

† On the Electric Fluid. (*Phil. Mag.* xvi. 173.) *London*, 1803

† Galvanic experiments made by Carpue on the body of Michael Carney, from Notes taken by an eminent Physician. 8vo. 3 pp. (*Phil. Mag.* xviii. 90.) *London*, 1804

† (B. E.) On Galvanism, by a Correspondent. 8vo. 3 pp. (*Phil. Mag.* xviii. 170.) *London*, 1804

† Preliminary matter on Electricity, &c., in the volumes printed in 1805, 1809, 1816, and 1827, and in vol. i., printed in 1839, of the Second Series of the Turin Memoirs, (in all five articles). 4to. (Vassalli and others ?) *Torino*, 1805-39

† A new Electrical Phenomenon. 8vo. 1 p. (*Phil. Mag.* xxi. 162.) *London*, 1805

**Electricity, &c.**—*continued.*

† A new Fact in Galvanism. Communicated by a Correspondent. 8vo. 2 pp. (*Phil. Mag.* xxiv. 203.) *London*, 1806

† (R. F.) Sulla teoria del circuito galvanico. 8vo. 47 pp. (*Arago's copy.*) *Torino e Pisa, n. d.*

† On Electricity. Adhesion of two cylindrical conductors after a discharge, &c. (*Phil. Mag.* xxv. 72.) *London*, 1806

† (C. R.) On the partial fusion of Metals by the Electric Discharge. By a Correspondent. 3 pp. (*Phil. Mag.* xxiv. 73.) *London*, 1806

† (Auditor.) On Mr. Davy's Theory of Chemical Affinity, &c. 8vo. 4 pp. (*Phil. Mag.* xxxii. 370.) *London*, 1808-9

† Articles on Electricity, &c., in Rees's Encyclopædia. 4to. (*Vide* Cavallo and Cuthbertson, 1809.) *London, n. d.*

† (L.O.C.) On Galvanic Electricity. 8vo. 4 pp. (*Phil. Mag.* xlii. 476.) *London*, 1813

† (A. B.) Proposal for an improvement of the Galvanic Trough. 8vo. 2pp. 1 plate. (*Phil. Mag.* xliv. 15.) *London*, 1814

† On the Electric Fluid. 8vo. 1 p. (*Phil. Mag.* xlv. 218.) *London*, 1815

† (A. B.) On the Effects of Galvanism in Asthma and diseases of the respiratory organs. 8vo. 3 pp. (*Phil. Mag.* xlix. 419.) *London*, 1817

† Electrical Phenomena. (*Phil. Mag.* xlix. 390.) *London*, 1817

† (W.) On the supposed Repulsion of Electricity. (*Phil. Mag.* xlix. 208.) *London*, 1817

† Electrical Phenomena. (*Phil. Mag.* xlix. 314.) *London*, 1817

† Electrical Experiments. (*Phil. Mag.* lii. 376, 393, and 387.) *London*, 1818

† Note sur les expériences electro-magnetiques de Œrsted, Ampère, Arago, et Biot. 8vo. 26 pp. (*Arago's copy.*) (*Ext. des Annales des Mines*, 1820.) *Paris*, 1821

† (W. M. G.) On Electricity excited in paper. 8vo. 3 pp. (*Phil. Mag.* lxi. 330.) *London*, 1823

† Article Electricity in Encyclopædia Britannica (old edition), vol. iii. 239. 4to. 21 pp. *Edinburgh*

† Article Electricity in Encyclopædia Metropolitana. 4to. 132 pp. 5 plates. *London*, 1824-25

† Article Galvanism in Encyclopædia Metropolitana, vol. iv. 173 to 224. 4to. 52 pp. 1 plate. *London*, 1826

Navigation by means of Galvanism. (*Glasgow Mechanic's Magazine*, No. 23, *October*, 1826.) 1826

† Specimina Electrica. Habebitur exercitatio in Aula maxima Collegii Romani. 8vo. *Romæ*, 1826

† (E. W. B.) Remarks on one of the experiments from which Mr. Ritchie has inferred the inadequacy of the chemical theory of galvanism. 8vo. 5pp. (*Phil. Mag.* vii. 61.) *London*, 1830

† An attempt to simplify the Theories of Electricity and Light. 8vo. 48 pp. 1 plate. *Edinburgh*, 1834

(S. G.) Relazione ragionata sui fatti, &c., intorno alla singolare virtù dei pesci elettrici prima della scoperta del Galvanismo e della Pila Voltiana. 1838

Steam superseded: an Account of the Electro-magnetic Engine. 18mo. (*Vide* Taylor.) *London*, 1841

† Documents relatifs à l'emploi de l'Electricité pour mettre le feu aux fourneaux des mines et à la démolition des navires sous l'eau. 8vo. 88 pp. 1 plate. (*Extraits du Militaire Spectator Hollandais*, and from *The United Service Journal.*) *Paris*, 1841

† Straordinaria produzione di elettricità in una donna. Fol. 2 pp. (*L'Economista*, vol. i. dell anno 1844, p. 110.) *Milan*, 1844

† Dritte Abhandlung. Von den Eigenschaften und Ursachen der Electricität, welche bei der K. Acad. der Wissenschaften in Berlin eingesendet und . . . des Drucks würdig geschätzt werden. 4to. 102 pp. *Berlin*, 1845

## Electricity, &c.—*continued.*

New Theory of Vegetable Physiology based on Electricity. 12mo. *London*, 1847

Railway Appliances; or the Rail, Steam, and Electricity. 12mo. *London*, 1848

Electro-Biologie, de wetenschappelijk verklaard. 8vo. (*Translation of Smee?*) *Amsterdam*, 1852

Minas nuevas de guerra, y su aplicacion á la defensa como consecuencia de un reciente descubrimento para emplear la electricidad en la Voladuro de los Hornillos. 8vo. *Madrid*, 1854

† Part of Bulletin des Travaux de l'Académie pendant l'Année 1855. 8vo. (*Toulouse Acad.* 4to. Série v. 398.) At p. 398 : *Laroque propose comme sujet de prix: Recherches sur l'Electricité atmosphérique.* At p. 434 : *Petit, Notes sur Inclinaison et Declinaison.* *Toulouse*, 1855

Die geographische Verbreitung der elektrischen Fische. 1856

† Elektricitätslehre und Physik der Erde. (*Fortschritte der Physik im Jahre* 1856. *Dargestellt von der physikalischen Gesellschaft zu Berlin.* xii. *Jahrgang. Redegirt von A. Krönig.* 2 *Abtheilung.*) *Berlin*, 1856

† Electrical Disc and Experiments. By a positive Conductor. 8vo. 96 pp. *London*, 1869

Vorträge, popular-naturwissenschaftliche über neuere Forschungen. 6te Heft. 8vo. 80 pp. (*Inhalt. Ueber Luft-elektricität, Nebel u. Höhenrauch. Nach Untersuchungen d. Verf.* v. *Ob-Lehr. Dr. F. Dellmann.*) *Kreuznach*, 1870

Haandbog i læren om elektricitet og magnetisme for 1ste ingenieur bataillon. Approberet af Krigsministeriet ved resolution of 18 Oktober, 1869. 8vo. *Kjobenhavn*, 1870

Mémoire sur l'Eremophilus et l'Astroblepus, sur une nouvelle espèce de Pimelode, sur la Condor, une nouvelle espèce de Gymnote, sur l'Anguille électrique. 4to. (From *Wheldon's Cat.* No. 74, 1870.)

Notice sur un appareil électro-magnétique inventé par M. Clarke, Mécan. Anglais. 8vo. (*Zantedeschi?*) *Nancy, n.d.*

## Electricity—History of.

Istoria dell' Elettricità. Firenze. (*Giornale dei Letterati d'Italia, Firenze*, tom. iv. part iv. art. 6 ; tom. v. part i. art. 2 ; part ii. art. 6.) *Firenze*, 1747-48

† Histoire de l'Electricité, traduite de l'Anglais de Jh. Priestley, avec des notes critiques. 3 vols. 12mo. 9 plates. *Paris*, 1771

† Histoire générale et particulière de l'Electricité. (*Vide* Mangin.)

## Electro-Metallurgy.

Nouveau Manuel complet de Galvanoplastie, &c. (From *Zantedeschi, Trattato* ii. 440.) (*Jacobi?*) *Paris*, 1843

. . . intorno all' Elettro-metallurgia Italiana quale fu dimostrata e svolta nella memoria letta alla Rl. Accad. . . . di Modena, 19 Dec. 1843, e nel relativo articolo portato dall' Appendice del Foglio periodico di Modena, 8 Feb. 1844. 8vo. (*Nuovi Ann. delle Scienze*, x. 435.) *Bologna*, 1844

Un Chapitre d'Electro-métallurgie. Fabrication des Plaques Argentées pour le daguerréotype. 12mo. 48 pp. *Paris*, 1852

† On the Application of Science to Electro-plate Manufactures. 8vo. (From the *Popular Science Review.*) (*Gore?*) *London, n.d.*

Manuale di galvano-plastica e della doratura chimica. Aggiuntovi un ricettario per l'argentatura galvanica sul vetro sulle norme di Figuier, Volta, Brugnatelli, ecc. 2 edizione. 16mo. 94 pp. *Trieste*, 1864

## Medical Electricity.

† Lettere sopra l'elettricità principalmente per quanto spetta alla Medicina. 12mo. 81 pp. *Venezia*, 1747

Saggio d'esperienze sopra la medicina elettrica. *Venice*, 1745 ?

**Medical Electricity**—*continued.*

† Recueil sur l'électricité médicale; dans lequel on a rassemblé les principales pièces publiées par divers savans, sur les moyens de guérir, en électrisant, les malades. 2nd edition. 2 vols. 12mo.

The authors in the 1st volume are—

1, Pivati; 2, Veratti; 3, Sauvages; 4, Jalabert; 5, De la Soue; 6, Quelmalz; 7, Zetzell; 8, M . . .

Those in the 2nd volume are—

9, Bianchini; 10, Deshais (vere *Sauvages*); 11, Dufay; 12, Sauvages (lettre à Morand). *Paris*, 1763

† M . . . Réflexions sur les différents succés des tentatives de l'Electricité pour la guérison des Maladies. 12mo. 28 pp. (*Recueil sur l'Elect. Méd.*) *Paris*, 1763

New Thoughts on Medical Electricity; or, Attempt to discover the real uses of Electricity. (From Kuhn. Hist. ii. 319.) *Cambridge*, 1782

Sur les Tracteurs de Perkins. (*Mém. des Soc. Sav. et Let.* ii. 237.)

Recherches sur le Perkinisme, ou de l'influence des Tracteurs métalliques, inventés par le Dr. Perkins, sur certaines maladies. (*Annales de la Soc. de Médec. de Montpellier*, xxix. 274.) *Montpellier*

Observations sur l'Electricité, par M., Chirurgien de la Salpétrière. (A brochure.)

Consectaria Electro-medica. (*Vide* Bertholon, ii. p. 77.)

A Fortunate Cure. (*Guy's Hospital Reports*, vol. viii. part i. 1852, p. 108.) *London*, 1852

**Electric Telegraph.**

† An Essay, tending to improve intelligible Signals, and to discover an universal Language. From an anonymous correspondent in France (probably the inventor of the Telegraph). Translated from the French. 4to. (*Trans. Amer. Phil. Soc.*, old series, vol. iv. p. 162.) *Philadelphia*, 1799

Rail, Electric Telegraph, and Electric Clock. 12mo. *London*, 1847

Modification of Keisser's Ideas (Telegraph). Letters with Tinfoil intervals. 1848. (*Förster's Bauzeitung*, 1848, p. 238.) 1848

An Article on the Electric Telegraph in the North British Review, vol. xxii. p. 543. (*Vide* W. F. Cooke in the "Reader" Correspondence, Mr. Ronalds and the Electric Telegraph.)

† Electro-magnetiske Telegrapher, en fortælling fra den nyere Tid. 8vo. (A Novel.) *Kjobenhavn*, 1851

The Telegraph Guide, containing general information for sending Telegrams to all parts of England, Scotland, Ireland, and the continents of Europe, Asia, Africa, and America; with a Telegraphic Map of Europe. (*Supplement to the "Electrician."*) *London*

† Instruction pour les Télégraphistes de la Suisse, basée sur l'emploi du Système Steinheil pour l'établissement du Réseau et des Stations. 8vo. 7 plates. 128 pp. *Berne*, 1852

† Die elektrischen Telegraphen. Gemeinfassliche Erläuterungen über die Principien und Apparate der neueren Telegraphie. 8vo. 62 pp. *Stuttgart*, 1852

† Dienst-Anweisung für die telegraphische Correspondenz auf den Linien der Deutsch-Oesterreichischen Telegraphen-Vereins. 4to. 71 pp. *Berlin*, 1853

† Riassunto generale di Telegrafia elettrica. 8vo. *Milano*, 1854

Recueil de prescriptions relatives à l'usage des Télégraphes électriques en Suisse. (Pub. par la Direction du Télég. Suisse.) 8vo. *Berne*, 1854

† Dienst-Anweisung für die telegraphische Correspondenz auf den Linien des Deutsch-Oesterreichischen Telegraphen-Vereins. 4to. 80 pp. (Formula marked from A to Q.) *Berlin*, 1855

Le Père de la nouvelle Télégraphie. 4to. *Auch*, 1856

† Télégraphie privée. Tarifs pour la France et l'étranger à partir de Marseille. 8vo. *Marseille*, 1856

**Electric Telegraph**—*continued.*

† Cheap Telegraphs. 8vo. 12 pp. *London*

† Dienst-Instruction für die Telegraphen Verwaltung. 3 vols. 1118 pp. 4to. *Berlin*, 1860

† Application de la Télégraphie électrique aux usages domestiques. 8vo. 42 pp. 1 plate. (*Extrait de la Revue générale de l'Architecture et des Travaux publics.*) *Paris*, 1862

Télégraphie domestique. Instructions sur la pose et l'entretien des Sonnettes électriques. 12mo. (*Vide* Breguet, 1865.) *Paris*, 1865

Sulla Telegrafia Italiana. 8vo. (From *L'Annuario Bibliografico*, an. i. del. 1863. p. 190.) *Torino*, 1866

† Dictionnaire pour la Correspondance télégraphique secrète; précédé d'Instructions détaillées et suivi de la Convention télégraphique Internationale conclue à Paris, le 17 Mai, 1865. Par un Secrétaire de Légation. 12mo. *Paris and Strasburg*, 1867

† Telegraphic Reform. The Post Office and the Electric Telegraph. 8vo. 46 pp. (Reprinted from the *British Quarterly Review.*) *London*, 1867

Manuel de Correspondance télégraphique, par un Directeur du Télégraphe. 8vo. (From *Reinwald's Catalogue* for 1868, p. 138.) *Paris*, 1868

† Special-Karte der Normal-Verbindungen der Telegraphen-Leitungen des Norddeutschen-Bundes, entworfen und gezeichnet im technischen Bureau der General Telegraphen Direction. Abgeschlossen den 1 Jan. 1868. Folio. 16 Chromolithographs. *Berlin*, 1868

† Notices of the Electro-magnetic Telegraph. (*Vide* Society for the Diffusion of Useful Knowledge (S.)

† Uebersicht der Stationen des Telegraphen Vereines, und des Grossherzogthums Luxemburg, nach Taxquadraten geordnet. 4to. 47 pp. *Berlin*, 1870

**Magnetism.**

Answer to some Magnetical Enquiries proposed. Pp. 423-24, year 1667, of these Transactions. 4to. (*Phil. Trans.* 1667, p. 478.) *London*, 1667

Several Observations of the respect of the Needle to a piece of Iron held perpendicularly, made by a Master of a Ship crossing the Æquinoctial Line. 4to. (*Phil. Trans.* 1685, p. 1213.) *London*, 1685

Recueil d'Expériences sur l'Aimant, avec la manière de les faire par rapport aux Aimants que l'on spécifie, et aux petites pièces et machines que l'on décrit. Sm. 8vo. 6 + 71 pp. (*Curious and rare.*) *Lyon*, 1686

† M.D.*** Traité de l'Aimant, divisé en deux parties. La première contenant les expériences, la seconde les raisons. 1st edit. 12mo. (*Vide* Dalance.) *Amsterdam*, 1687

† C*** J. A Paper about Magnetism, or concerning the changing and fixing the Polarisation of a piece of Iron. 4to. (*Phil. Trans. for* 1694, xviii. p. 258.) *London*, 1695

† Lettres écrites sur le choix d'une hypothèse de l'Aimant. 12mo. 138 pp. *Lyon*, 1699

† Explication des propriétés de l'Aymant. 4to. 11 pp. 1727

† Traité de la Boussole (en Turc). 8vo. *Constantinople* 1144 = 1732

† Pièces sur l'Aimant. 4to. *Paris*, 1748

† Description des Courans Magnétiques. (*Basin?*) *Strasbourg*, 1753

† A brief Theory of the North Magnetic Pole. 8vo. (*Note.* This is Lovet's Appendix to his *Philosoph. Essays.*) *Worcester*, 1766

Report on McCullagh's Compasses. *London*, 1778

Physica-magnetica. Variatio, declinationes. . . . (*Opusc. Act. Erudit. Lyps.* tom. i. p. 542.)

Betrachtungen über die Kraft des Magnets. (*Oekonom. Nachr. d. Gesellsch. in Schlesien*, iii. 220.)

Zusammenstellung der, in den letzten Jahren in dem Gebiete des Magnetismus gemachten Erfahrungen. (*Erdmann's Journ.* xlix. 1.)

**Magnetism**—*continued.*

Ency. Method. Pl. viii. Amusements de Physique. (*Magnetical Apparatus.*)

Ency. Method. Art. vi. 694. (*Artificial Magnetism.*)

† Trismi tonici cæt. per magnetem curatio. 4to. 22 pp. (*Volta's copy.*)

† Article Magnetism, in Encyclopædia Metropolitana. 4to. 113 pp. (*Vide* Barlow.) *London, n. d.*

Remarques sur les Aimans artificiels de Basle (faites par Dietrich, bourgeois et artiste à Basle.) (*Acta Helv.* ii. 264.)

† Magnetism. Observations on the Dip and on the Intensity of the Magnetic Force. . . . By Hansteen. (*Phil. Mag.* lvii. 70.) *London*, 1821

† Observations on the Experiment of Mr. Murray, on the supposed relation between Caloric and Magnetism. "Experimenter." 8vo. (*Phil. Mag.*, lxi. 251.) *London*, 1823

Ency. Method. Physique. Art. Aimant.

Catalogue général des Livres composant les Bibliothèques du Département de la Marine, au mot Aimant. 8vo. 5 vols. (In the *Chambre de Commerce, Bordeaux.*) *Paris*

An unnamed writer in the *Gazzetta di Venezia*, 25 Gennajo, 1839, No. 21, on "Magnetismo Transversale." (*Fusinieri, Riflessioni sopra il Magnetismo Transversale*, in his *Annali*, ix. 19.) *Venezia*, 1839

Terrestrial Magnetism. 8vo. (*Quarterly Review.*) *London*, 1840

(Exploration Scientifique de l'Algérie.) Observations sur le Magnétisme Terrestre. Recherches de physique sur la Méditerranée. 4to. 2 vols. 1846

R***. (*Rieu?*) Examen de quelques Questions de Physique. 8vo. 1 plate. 96 pp. *Genève*, 1847

Essai sur l'Influence que peut avoir la Construction des Corps sur leurs qualités magnétiques. 8vo. 26 pp. *Genève*, 1852

† Essai sur l'Influence de la Polarité moléculaire dans les Phénomènes électriques et magnétiques. 8vo. 1 plate. 57 pp. *Genève*, 1853

Essai sur le Mouvement du Fluide magnétique. 8vo. 21 pp. *Genève*, 1853

De l'Action que parait exercer le Magnétisme Terrestre sur un Corps construit de couches égales juxta-posées. 8vo. 1 plate. 22 pp. *Genève*

El Magnetismo. Consideraciones luminosas acerca de esta doctrina, por un doctor de la Facultad de Medicina de Paris. Traduccion Castellana. 8vo. *Madrid*, 1855

Walk through the Paris Exhibition of 1855. By F. R., &c. 12mo. (*Magnetical and Meteorological Inst.*, &c. By F. Ronalds.) *London*, 1855

**Magnetic Variation.**

(B . . . Dr.) Extract of a Letter concerning the present Declination of the Magnetic Needle and the Tydes at Bristol, 1668. 4to. (*Phil. Trans.* 1668, p. 726.) *London*, 1668

Abwechslung von der Magnet-Nadel, nebst einem Calendario magnetis declinantis et inclinantis. 8vo. (*Fragment, probably from a Scientific Journal printed in Germany about* 1746, pp. 311-347.)

† S——, Sir R. A Relation of the Effect of a Thunder-clap on the Compass of a Ship on the coast of New England. 3 pp. Also, a Letter concerning the former Relation. 2 pp. (*Phil. Trans. for* 1683, xiii. pp. 520-21.) *London*, 1683

† Cartes de Déclination et Inclination de l'Aiguille Aimantée, rédigées d'après la Table des Observations Magnétiques faites après les Voyageurs depuis l'année 1775. (*Sic.*) (*Chambre de Commerce, Bordeaux.*)

† Declination of the Needle:

At Toulouse in 1770 = 18° 59′
„ „ 1780 = 20° 15′
„ „ 1790 = 21° 5′
„ „ 1804 = 21° 43′—(1st of Germinal, year 12.)

(*Phil. Mag.* xviii. 369. 1816.) *London*, 1816

## Magnetic Variation—*continued.*

† Northern Expedition. 8vo. 6 pp. (*Phil. Mag.* lii. 225.) (*Contains statements as to extraordinary variations of declination and inclination of the magnetic needle.*) *London*, 1818

† Remarks on an important Error in a Table for computing Local Attraction, circulated by order of the Board of Longitude. 8vo. 3 pp. (*Phil. Mag.* lv. 357.) *London*, 1820

† Return of the Discovery Ships. 8vo. 6 pp. (*Phil. Mag.* lvi. 383.) *London*, 1820

† The Arctic Expedition. 8vo. 4 pp. 1 plate (*i.e.* map.) (*Phil. Mag.* lvi. 440.) *London*, 1820

† Tables of the Variation of the Magnetic Needle in different parts of the Globe. (*Edinb. Phil. Journal*, ix. p. 447, and x. p. 116.) *Edinburgh*, 1824

† Mittheilungen über ältere magnetische Declinations-Beobachtungen. 1^es^ Heft. *Wien*, 1850

A Treatise on Terrestrial Magnetism. Containing an outline of the discoveries and theories connected therewith; an inquiry as to whether the terrestrial sphere has four or only two magnetic poles; on the probable causes of terrestrial magnetism; on the irregularities observed in the secular variation, &c. *Edinburgh and London*, 1871

## Meteorological Phenomena.

### AURORA BOREALIS.

† (J. W.) An Account of the Aurora Borealis observed at Dublin on the 6th of February, 1720-21. 4to. 7 pp. (*Phil. Trans.* xxxi. for 1720-21, 180. *London*, 1721

Rerum Italicarum Scriptores, ab anno aeræ Christianæ 1000 ad 1600; quorum potissima pars nunc primum in lucem prodit ex Florentinarum Bibliothecarum codicibus. Tomus primus. Folio. (*Note.* Contains accounts of ancient auroræ, meteors, marvels, &c.) *Florentiæ*, 1748

† Account of an Aurora Borealis, from a Correspondent at Lancaster, Pennsylvania. 4to. 2 pp. (*Trans. Amer. Phil. Soc.* vol. i. old series, p. 338.) *Philadelphia*, 1769

† Article Aurora Borealis in Encyclopædia Britannica, 7th edition, vol. iv. p. 194. 4to. *London and Edinburgh*, 18—

† Aurora Borealis observed at Leeds, London, Derby, Paris, and in Germany, on the 8th February, 1817. 8vo. (*Phil. Mag.* xlix. pp. 155, 223, and 236.) "Herr Stark, at Augsburg, observed that Volta's electrometer and the magnetic needle were almost constantly in motion." Its increased variation was (at one time) 2° 7′ *London*, 1817

*Note.*—I know of but two other observations of strong electrical signs occasioned (seemingly) by an Aurora, viz., those of Canton, in the *Phil. Trans.* for 1753, p. 350; and of Morozzo (Count), in the *Mém. de Turin An.* 1784-5, tom. i. part ii. pp. 328 and 338. The last very extraordinary.—*Francis Ronalds.*

† Aurora Borealis in northern parts of England and south of Scotland and in Norfolk, &c., 17th October, 1819. 8vo. 3 pp. (*Phil. Mag.* liv. 388.) *London*, 1819

† Aurora Borealis of September 25, 1827. (*Phil. Mag.* ii. 395.) *London*, 1827

† Auroræ Boreales on 13th April, 1827, at Gosport (with falling stars, &c.), and on 17th February, 1827. 8vo. (*Phil. Mag.* i. 317.) *London*, 1827

† Aurora Borealis observed at Gosport on the 29th September, 1828. 8vo. (*Phil. Mag.* iv. 392.) *London*, 1828

† Aurora Borealis observed in London December 1, 1828. 8vo. (*Phil. Mag.* v. 77.) *London*, 1829

† Aurora Borealis 19th June, 1830. 8vo. (*Phil. Mag.* vii. 463.) *London*, 1830

† Auroræ Boreales, with meteors, on the 5th, 16th, and 17th October, 1830. 8vo. *London*, 1830

† Aurora Borealis, with meteors, on the 20th October, 1830. 8vo. (*Phil. Mag.* viii. 316.) *London*, 1830

**Meteorological Phenomena**—*continued.*

† Aurora Borealis on the 7th November, 1830, observed at Gosport. 8vo. (*Phil. Mag.* viii. 392.) *London*, **1830**

† Aurora Borealis, December 14, 1829. 8vo. (*Phil. Mag.* iv. 158.) *London*, **1830**

† Auroræ Boreales, with meteors, on the 1st, 4th, and 7th November, 1830. 8vo. (*Phil. Mag.* ix. 79.) *London*, **1831**

† Influence of the Aurora Borealis on the Magnetic Needle. 8vo. 1 p. (*Phil. Mag.* ix. 151.) *London*, **1831**

† Aurora Borealis observed at Gosport on the 7th of January, 1831. 8vo. (*Phil. Mag.* ix. 233.) *London*, **1831**

† Auroræ Boreales, with meteors, 19th and 20th April, 1831. (*Phil. Mag.* ix. 466.) *London*, **1831**

† De Naturali Electricismo ejusque ad Aurorem Borealem applicatione. Dissertatio physicæ. 4to. pp. 11-30.

AEROLITES.

† (P. N. J.) On the production of Aërolites and other solids. 8vo. 3 pp. (*Phil. Mag.* xliv. 321.) *London*, **1814**

† On Shooting Stars. 8vo. 2 pp. (*Phil. Mag.* liii. 201.) *London*, **1819**

† Aërolite, fell 15th June, 1822, at Juvinas, a village in the arrondissement of l'Argentiers. 8vo. 1 p. A further account of it given by Firman. 8vo. (*Both in Phil. Mag.* lix. 235.) *London*, **1822**

† Account of an Aërolite found near Croz (Finistère) on the 15th June, 1822. (*Phil. Mag.* lix. 67.) *London*, **1822**

† Caduta d'un Aerolito. 8vo. (*Biblioteca Ital.* xcvii. 424.) *Milano*, **1840**

† Bulletin des mois Juillet et Août. 8vo. (*Petit on Asteroids as the causes of High Temperature*, p. 436.) *Toulouse*, **1851**

† Bulletin des mois de Juin, Juillet, et Août. 8vo. (*Petit on Asteroids*, p. 431.) *Toulouse*, **1853**

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Histoire d'un Météore igné. 8vo. 6 pp. (*Mémoires de l'Académie de Dijon*, tom. i. xlii.) *Dijon*, **1769**

† Account of an uncommonly luminous Meteor of 13th November, 1803. 8vo. 1 p. (*Phil. Mag.* xvii. 191.) (*Vide* Firmingham.) *London*, **1803**

Des pierres Météoriques. 12mo. 30 pp. *Dresden*, **1804**

† Meteoric Phenomenon in Middle Quarters, in the parish of St. Elizabeth. 8vo. 2 pp. (*Phil Mag.* xx. 281.) (*This article appears under the heading of St. Iago de la Vega, Oct.* 8.) *London*, **1804**

† Meteoric Stone in Russia, 8vo. 1 p. (*Phil. Mag.* xxviii. 373.) *London*, **1807**

† On a Meteor of the 17th October, 1808. 8vo. 1 p. (*Phil. Mag.* xxxii. 95.) *London*, **1808**

† Singular Sensations, or Shakes experienced on board the ship Favourite on July 14, 1810, in lat. 31° 56′, long. 39° 30′. 8vo. 1 p. (*Phil. Mag.* xxxvi. 395.) *London*, 1810

† Meteor (luminous) seen in Holland. 8vo. 2 pp. (*Phil. Mag.* xxxvi. 395.) (*Note.*—If this account is correct, it presents some very uncommon and interesting facts.) *London*, **1810**

† Description of a splendid Meteor seen at Dublin on the 17th April, 1814. 8vo. 3 pp. (*Phil. Mag.* xliii. 303.) *London*, **1814**

† Fall of Meteoric Stones in India. 8vo. 1 p. (*Phil. Mag.* xlvi. 155.) *London*, **1815**

† A hard body, supposed to be of the nature of a Meteoric Stone, fell during a hard thunderstorm into a window at Glastonbury. 8vo. (*Phil. Mag.* xlviii. 235.) *London*, **1816**

† A brilliant Meteor (described in Letter to the Editor, dated Ipswich, 1817). 8vo. 1 p. (*Phil. Mag.* l. 469.) *London*, **1817**

**Meteorological Phenomena**—*continued.*

† Meteor at Aberdeen, &c. (*Phil. Mag.* liv. 75.) *London*, 1819

† Some Observations made at Clapham Common, Surrey, on the heavy storm that took place on the night of Sunday, 30th July, 1820. 8vo. 4 pp. "Philobius." (*Phil. Mag.* lvi. 120.) *London*, 1820

† A singular Meteoric Substance (black leaves like burnt paper, but harder) found in the Museum of Von Grotthus of Courland. According to the Ephemeris of the Leopold Acad., it fell, in great quantities, in Courland, on the 31st January, 1686. 8vo. (*Phil. Mag.* lvi. 157.) *London*, 1820

† Remarks upon Mosely's article on Solar Spots of 1816 in *Phil. Mag.* xlix. 182. 8vo. 3 pp. (*From New Monthly Mag. for January*, 1821. *At* p. 70, *article on Magnetism and on Meteoric Stone; and* p. 72, *Chain Cables as Conductors.*) *London*, 1821

† Meteoric Stone. An aërolite which fell near Kostritz, in Russia, analysed by Stromeyer. 8vo. (*Phil. Mag.* lvii. 70.) *London*, 1821

† Meteor at Brighton. 8vo. (*Phil. Mag.* lviii. 457.) *London*, 1821

† Meteors at Richmond, Virginia, &c. of extraordinary size, and at Rodez, in Aveyron. 8vo. 1 p. (*Phil. Mag.* lix. 399.) *London*, 1822

† Remarkable Meteor (seen at Kreil and at Copenhagen), (*Phil. Mag.* lxii. 238.) *London*, 1823

† Meteor and Earthquakes at Ragusa, in Dalmatia, on 20th August, 1823. 8vo. (*Phil. Mag.* lxii. 315.) *London*, 1823

† Account of a large Meteoric Stone . . . which fell near the village of Kadonah, in the district of Agra. 8vo. *London*, 1827

Rapport sur les travaux de l'Académie des Sciences, 1829. 8vo. (*Séances de l'Acad. de Bord.* 1829, pp. 43 and 59.) *Bordeaux*, 1829

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Report (official) of the fall of a Thunderbolt, or Meteorolite, near Dover. 8vo. *London*, 1853

Boletin del Observatorio Fisico Meteorico de la Habana. Parte i. 4to. *Habana*, 1862

† Catalogue of the Meteorolites in the Museum of the Geological Survey of India, Calcutta. 4to. 9 pp. *Calcutta*, 1866

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† A Description of the Phenomenon of March 6 last as it was seen on the ocean, near the coast of Spain. With an account of the return of the same sort of appearance on March 31 and April 1 and 2 following. 4to. 3 pp. (*Phil. Trans. for* 1714-15-16.) *London*, 1717

De cœlesti quadam Flamma, An. 1743, xiii. Kal. Febr. 4to. (*Commentarii Bononienses*, tom ii. part i. p. 459.) *Bononia*

† Surprising Inundation of the Valley of St. John's, near Keswick, in Cumberland, on the 22d of August, 1749; in a letter from a young clergyman to his friend. Communicated by J. Lock. Read March 15, 1749. (*Phil. Trans.* xlvi. 362.) *London*, 1749-50

† Beschreibung eines Donnerschlages in Gothland. 8vo. (*K. Schwed. Akad.* xv. 80.) *Hamburg and Leipzic*, 1753

† Phenomena cælestia observata. 8vo. *Romæ*, 1754

† Osservazione del Globo luminoso apparso il di 11 Settembre, 1784. 4to. 1 p. (*Opus. Scelti.* vii. 284.) *Milano*, 1784

† A Fire-ball struck a house on the 4th July at East Norton. (*Phil. Mag.* xvi. 191.) *London*, 1803

† Description d'une Trombe de Terre ascendante. 4to. 5 pp. *Turin*, 1808

† Relazione di un Fenomeno osservato nel Porto di Napoli a' 24 Decembre, 1798. 4to. 7 pp. (*Atti dell' Accad. di Siena*, tom. ix. p. 30.) *Siena*, 1808

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† Atmospherical Phenomena in the River St. Lawrence. 8vo. (*Phil. Mag.* xliv. 91.) *London*, 1814

† Atmospheric Phenomenon, 11th September, 1814. Luminous arch near the City. 8vo. (*Phil. Mag.* xliv. 236.) *London*, 1814

† Combination of the Electric Column, the Thermometer, Barometer, and Hygrometer in one instrument, for electro-atmospherical researches. 8vo. (*Phil. Mag.* xlix. 55.) *London*, 1817

† Waterspout, on 27th June, 1817, observed from Kentish Town. 8vo. 3 pp. (*Phil. Mag.* l. 146.) *London*, 1817

(T. H.) On the identity of Waterspouts and Whirlwinds. 8vo. (*Phil. Mag.* li. 103.) *London*, 1818

† Destructive Waterspout. 8vo. 1 p. (*Phil. Mag.* lii. 68.) *London*, 1818

† (E. F.) Atmospheric Phenomenon. 8vo. (*Phil. Mag.* lviii. 314.) *London*, 1821

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Violent Storms and Waterspouts in Belgium. 8vo. 2 pp. (*Phil. Mag.* lxii. 232.) *London*, 1822

† On the Formation of Hail. From the *Gentleman's Mag.* (Electrical Theory). 8vo. (*Phil. Mag.* lix. 93.) *London*, 1822

† (" Glosterian.") On the quantity of Rain collected in two rain-gauges placed at different heights, &c. 8vo. 5 pp. (*Phil. Mag.* lxi. 321.) *London*, 1823

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Cyclone at Masulipatam. Reprinted, with additions, from the *Madras Observer* of December 3, 1864. 14 pp. *Madras*, 1864

## Lightning, Lightning-conductors, &c.

Neueste Versuche zur Bestimmung der zweckmässigsten Form der Gewitterstangen. (*Deutsch Mus.*, Oct. 1778, pp. 351-62.) 1778

† Maniera pratica di fare li Conduttori . . . 4to. (*Printed by order of the Magistrato della Sanità di Venezia.*) (*Vide* Marzari.) *Venezia*, 1787

Encyclopædia Method. Arts. Article, Paratonnerre. 1782

Einige gegen die Gewitterableiter gemachte Einwürfe beantwörtet. 8vo. *Frankfurt*, 1790

† Dubbii sull' Efficacia dei Conduttori. 8vo. 122 pp. 1 plate. (*Vide* Bragadin.) *Venezia*, 1795

Nachricht und Zeichnung von einer im Jahre 1778, am Schlossthurme, zu Dresden, angebrachten Ableitung. (*Schrift. d. Leipz. ökonomische Societät*, th. v. pp. 222-32.)

† Risposta dell' autore dei Dubbii sull' efficacia dei Conduttori, alla giunta al Giornale Astrometeorologico del Gr. Toaldo. (*Vide* Bragadin.)

† Plain Directions for safe Lightning Conductors for Lightning. 8vo. 49 pp. (*Note. Part of a work. Begins at p.* 33.)

Account of a mass of 7000 Bricks of a Wall displaced several feet by Lightning. 8vo. (*Manchester Memoirs*, ii. 2.) *Manchester, n.d.*

Relazione del Turbine scoppiato in Venezia nel Giorno 16 Giugno, 1805. Data Venezia, 19 Giugno. 8vo. (*Da Rio Giornale*, ix. 266.) *Padova*, 1805

† Instruction sur les Paratonnerres. Fol. 39 pp. (*Vide Comité des Fortifications.*) *Paris*, 1808

(R. R.) Death by Lightning. Man killed at Colwall, near Ledbury, 1817. 8vo. (*Phil. Mag.* l. 315.) *London*, 1817

† On Lightning Conductors of Straw. 1820

† On the Cure of a case of Paralysis by Lightning. 8vo. 2 pp. (*Phil. Mag.* lix. 287.) *London*, 1822

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† Anleit. zur Verfertigung und Benutzung der Blitzableiter. 8vo. (*Vide* Gay Lussac, &c.) *Strasburg*, 1824

† Tubes formed by Lightning. 8vo. 1 p. (*Phil. Mag.* or *Annals*, iv. 228.) *London*, 1828

Memoir on Lightning Conductors. Reply to a Prize Question. Bordeaux, 1837. (*Vide* Bourges, Secretary of the Bordeaux Academy, Séance 1837, p. 83.) *Bordeaux*, 1837

On the Knowledge of the Ancients concerning Lightning Conductors. 8vo. (*Fraser's Magazine*, 1839?) *London*, 1839?

Sur l'Histoire du Paratonnerre. 1843. (*Le Portique*, 1re livraison, Jan. 1843, p. 51.) 1843

† (R. C.) (Richard or Richardot?) Nouveaux appareils contre les Dangers de la Foudre, ou les Paratonnerres popularisés. 8vo. 1 plate. 58 pp. *Paris*, 1846

† Part of Bulletin des Mois de Mars, Avril, Mai, Juin, Juillet, Août, 1854. 8vo. (*Toulouse Acad.* series 4, vol. iv. At p. 483, De Clos, *Effets de la Foudre sur un Paratonnerre.*) *Toulouse*, 1854

De la Construction des Paratonnerres. Quelques Réflexions sur le Rapport de la Commission de l'Académie des Sciences du 14 Janvier, 1867. 8vo. 29 pp. *Paris*, 1868

## Thunderstorms.

† Beschreibung des erschrecklichen Ungewitters und grossen Wasserfluth, so am 29 Mai, 1613, Weimar und anderere Orte überfallen. 4to. 39 pp. *Leipzig*, 1613

Nachricht, glaubwürd. von 3 grossen Ungewittern oder Wettern am 8 Juli, 1663, zu Ullersdorff in Mähren. 663, 4. 1663

† Part of a Letter to D. G. Garden, giving an account of the Effects of a very extraordinary Thunder near Aberdeen. 4to. 3 pp. (*Phil. Trans. for* 1694, xviii.) *London*, 1695

† Riflessioni sopra . . Maffei . . Fulmini. 4to. 52 pp. (*Vide* Ferri.) *Vicenza*, 1748

† Difesa della . . . sentenza che i Fulmini discendono dalle nuvole . . . Riflessioni . . . Venezia, 1749. 4to. 184 pp. (*Vide* Costantini.) *Venezia*, 1749

Four (very short) Accounts (Italian), printed in 1769 in Brescia and in Venice, of a terrible "Fulmine" at Brescia in 1769. 12mo. *Brescia and Venice*, 1769

† Della maniera di preservare gli edificj dal Fulmine: Informazione al popolo, &c. 4to. 38 pp. (*Vide* Toaldo.) At p. 20 is inserted a translation of Saussure's Exposition, entitled *Manifesto ossia breve esposizione dell' utilità dei Conduttori elettrici.* *Venezia*, 1772

† Evénement produit par le Tonnerre le 27 Juin, 1772, à Paris. 12mo. 88 pp. *Paris*, 1772

Verhaltungs Regeln bey nahen Donnerwettern, &c. . . . 8vo. 78 pp. Zweite und vermehrte Auflage. (*Vide* Lichtenberg) *Gotha*, 1775

† Della maniera di preservare . . dal Fulmine. 8vo. 22 pp. *Milano*, 1776

Gewitterbetrachtungen, Gebete, und Danksagung. 8vo. *Heilbronn*, 1780

† (M . .) Osservazioni sopra di un Fulmine, 1783. 4to. 10 pp. (*Opus. Scelti* vi. 347; *Tratta dal* No. 35 *del Giornale . . . dei Confini dell' Italia.*) *Milano*, 1783

† Nuovo metodo di costruire i Parafulmini praticato in Padova. 4to. 2 pp. (*Opuscoli Scelti*, vi. 380.) *Milano*, 1783

Dissertazione sopra i supposti Fulmini. 4to. (*Note. The figures represent ancient instruments of stone, mistaken, he says, by some authors for "Pietre di Fulmini."*) *Venezia*, 1784

Gewitterkatechismus. 8vo. *Augsburg and Wien*, 1797

Anzeigen der nothwend. Verhaltungsregeln bey nahen Gewittern. 8vo. *Gorlitz*, 1798

**Thunderstorms**—*continued.*

Onderrigtingen omtrent de wyse op welke menzich te gedragen heeft by het opkomen van Onweder, &c. 8vo. 2nd edition. 1 plate. 104 pp. (*Translated from the German.*) *Amsterdam*

De Fulminibus quibusdam (aus der Erde.) 4to. (*Commentarii Bononienses*, tom. ii. part i. pp. 460-64.)

Rathgeber bey Gewittern. 8vo. *Pirna*, 1807

**Miscellaneous.**

Curiöse Speculationes bey schlaflosen Nachten von einem Leibhaber der immergern speculirt. 8vo. *Chemnitz and Leipzig*, 1707

Schediasma physicum. 4to. *Vittemberg*, 1715

† Auszug aus verschiedenen eingelaufenen Berichten von seltsamen Knallen die man in Swenskeby gehört. 8vo. 3 pp. (*K. Schwed. Akad.* xiv. 326.) *Hamburg and Leipzig*, 1752

Nachricht von einer Erfindung einer Flinte aus welche man in 2 Minuten zehnmahl schiessen kann und wovon die Elektricität der Grund seyn soll. 8vo. *Stutgardt*, 1762

Schreiben eines Geistlichen. (*Vide* Jaquet.) *Wien*, 1776

Raccolta d' Opuscoli scientifici . . . di Autori Italiani. 4to. (From *Opusc. Scelti*, ii. 44.) *Ferrara*, 1779

Gedanken über die anziehenden Kräfte welche bei der chemischen Auflösung ze. (*Sic.*) 8vo. *Prag*, 1779

Table analytique, &c. Contents of the Dictionary of Sciences, Arts, &c., and its Supplement. 2 vols. folio. (*Opuscoli Scelti*, 4to. iii. 22.) *Paris*, 1780

Monatliche Früchte einer gelehrten Gesellschaft in Ungarn. 8vo. Pest. und Ofen. (*Kuhn N. Entdeck*, i. 27, who says that this book could scarcely be had, and that his account of it is derived from a notice in the *Allgemeine Deutschen Biblioth.* b. 74, st. 1, pp. 214-16. He refers to it on the subject of "the electric matter being a fire.") *Brachmonoth*, 1784

Geschichte einer ausserordentlichen Begebenheit. 8vo. *Frankfort*, 1785

Fisici dubbj dedicati agli amici del vero. 74 pp. 1791 ?

Comment. mortis historiam causa et signa sistens. *Goettingae*, 1794

Diario de los nuevos discumbrimientos, &c. 8vo. (*Opuscoli Scelti*, xviii. 24.) *Madrid*, 1793

† On the Opinions which have prevailed respecting the Nature of Alkalis and Earths. With Note by the Editor. 8vo. 5 pp. (*Phil. Mag.* xxxii. pp. 18-22.) *London*, 1808

† Extract of a short Article on Volcanoes, from a recent French Journal. 8vo. 1p. (*Phil. Mag.* xxxv. 235.) *London*, 1810

† Experiments on Capillary Syphons, with electrified and with heated Liquids. 8vo. (*Phil. Mag.* xlii. 202.) *London*, 1813

† A Review of some leading Points in the official Character and Proceedings of the late President of the Royal Society. 8vo. 14 pp. (*Phil. Mag.* lvi. pp. 161 and 241.) *London*, 1820

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(R. N.) Notice respecting the real Inventor of the Steam Engine. 8vo. 2 pp. (*Phil. Mag.* lvii. 426.) Said to be Saml. Morland, 1632. *London*, 1821

Il propagatore dei Paragrandini convinto da sè stesso della loro inutilità ; ossia confutazione della difesa dei paragrandini di A, B, C, D. *Milano*, 1824

Notice sur les Travaux de la Classe des Sciences de l'Acad. de Toulouse. 8vo. (*Toulouse Acad.* 2me série, i. 93.) *Toulouse*, 1827

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† (Z. L. V.) *i.e.*, Volta, Zanino, and Lo. Sopra alcuni Errori Biografici e Fisici del Biot. Sm. 8vo. 48 pp. (*Raccolta Pratica di Zanino, Volta, ed altri, Anno* ii.) (*Note. The errors referred to are those relative to (his father) A. Volta's writings, &c.*) *Como*, 1833

**Miscellaneous**—*continued.*

Lettere inedite di quaranta illustri Italiani, del secolo (Muratori, Volta, Tiraboschi, &c.) 8vo. *Milano*, 1836

Une Masse de Grillons de 19 pieds, 10 pouces (Anglais) de puissance. (*Asiatic Journal for November*, 1838.) 1838

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† Bulletin du mois de Mai, 1850. 8vo. (At p. 248, *Leymerie on the Tourmaline.*) *Toulouse*, 1850

† Bulletin du mois de Mars. 8vo. (*Toulouse Acad.* 4me série, i. 233. Notice of *Petit's* verbal communication on *Une Chute de Pluie par un Ciel parfaitement serein*, p. 234.) *Toulouse*, 1851

† Bulletin des mois Avril et Mai. 8vo. (*Toulouse Acad.* 4me série, i. 319-20. At p. 319, allusion to reply of *Petit* to *La Verrière ou Bolides.* At p. 320, *Lecture d'une Lettre par Petit . . . Chute de Pierre à Escal.*) *Toulouse*, 1851

Papers on Subjects connected with the Duties of the Corps of Royal Engineers (Blasting, &c.) *London*, 1851

† Table Générale des 31 premiers Vols. des Comptes Rendus, Années 1835-50. 4to. 1018 pp. *Paris*, 1853

† La Società di mutua Assicurazione contro la Grandine e gl' Incendi. Memoria al Parlamento Italiano. 4to. *Milano*, 1861

Nouvelle Dissertation. (*Vide* Morin.)

† (B . . . R.) Insetti luminosi dell' America. 8vo. 2 pp. (*Bibliot. Ital.* lix. 424.) *Milano*, 1830

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† **Babinet,** Jacques. *Born March* 5, 1794, *at Lusignan, départ. Vienne; died October* 21, 1872, *Paris.* Exposé des nouvelles Découvertes . . . par Œrsted, &c. 8vo. (*Vide* Ampère et Babinet.) *Paris*, **1822**

Notice sur l'établissement des lignes Télégraphiques. 4to. (*Revue des Deux Mondes*, 1^er^ *Semestre*, 1853.) *Paris*, **1853**

† Etudes et Lectures sur les sciences d'observation et leurs applications pratiques. Premier vol. 12mo. 221 pp. *Paris*, **1855**

† Etudes et Lectures sur les sciences d'observation et leurs applications pratiques. Sixième vol. 12mo. 261 pp. *Paris*, **1860**

**Bacelli,** Liberato Giovanni. *Born November* 18, 1772, *at Lucca; died October* 21, 1835, *at Bologna.* Lettere due sopra i fenomeni Elettro-magnetici. (*Venet. Lomb. Instit.* iv. 48.) *Carpi*, **1820**

† I fenomeni Elettro-magnetici a due leggi ridotti, con la loro cagione tolta dall' opinione Symmeriana. Ragionamento. 8vo. 86 pp. (*Vide* Barlocci, 1826, p. 280.) *Modena*, **1821-28**

† Risultati dell' esperienze fatte dal Bacelli intorno all' azione dei fili di metallo elettrici sugli aghi calamitati e non calamitati. Comunicati alla Rle. Accad. di Modena. (Dal *Messaggiere Modenese*, No. 38, il 12 Maggio, 1821.) Con note inedite del medesimo Professore. 8vo. (*Biblioteca Ital.* (*Stella*) xxiii. 76.) *Milano*, **1821**

Reference to his new Electrical Machine, described, with some hydraulic and optical apparatus, 19th July, 1834, at the University of Modena. (*Verona Poligrafo*, nuov. s. iii. 1834, p. 83.) **1834**

Sul Magnetismo del rame e di altre sostanze. . . . (*Poggendorff*, i. 83.)

**Bache,** Alexander Dallas. *Born July* 19, 1806, *at Philadelphia.*

On the diurnal Variation of the Horizontal Needle. 4to. (*Trans. Amer. Phil. Soc.* new series, v.) *Philadelphia*, **1837**

† Discussion of the Magnetic and Meteorological Observations made at the Girard College Observatory, Philadelphia, from 1840 to 1845. In Three Sections and Nine Parts. (*Smithsonian Contributions.*) *Washington*, **1840-45**

† Report (as Chairman) of the Compass Committee of the National Academy of Sciences. (*Vide* National Academy of Sciences.) **1864**

† Observations of the Magnetic Intensity at twenty-one stations in Europe. Read March 6, 1840. 4to. (*Trans. Amer. Phil. Soc.*, new series, vii. 75.) (*Faraday's copy*) *Philadelphia*, **1841**

Notice of Experiments on Electricity developed by Magnetism. 8vo. (*Journal of the Franklin Inst.*) *Philadelphia*, **1832**

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**Bache**—*continued.*

† Observations upon the facts recently presented by Professor Olmsted in relation to Meteors seen on the 13th November, 1834. 8vo. (*Journal of the Franklin Inst.* xvii.) **1836**

† 1. On Franklin. . . . Storms. 2. On Rain. 3. On the Discovery of the Non-conducting Power of Ice. 8vo. (*Journal of the Franklin Inst.* xvii.) **1836**

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Observations at the Magnetical and Meteorological Observatory at the Girard College, Philadelphia, made under the direction of A. D. Bache, LL.D. . . 3 vols. 8vo. (*Trübner's Bibl. Guide*, p. 195, says, Printed 1847.) *Washington.* **1840-45**

† Records and Results of a Magnetic Survey of Pennsylvania and parts of adjacent States in 1840 and 1841, with some additional records and results of 1833-35, 1843, and 1862, and a Map. fol. 32 pp. *Washington*, **1863**

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† On the relative horizontal Intensities of Terrestrial Magnetism at several places in the United States, with the investigation of corrections for temperature, and comparisons of the methods of oscillation, in full, and in rarefied air. 4to. 31 pp. Read May 6, 1836. (*Trans. Amer. Phil. Soc.* v. 427.) *Philadelphia*, **1837**

† **Bachhoffner,** G. H. A popular Treatise on Voltaic Electricity and Electro-magnetism. 8vo. 35 pp. 1 plate. *London*, **1838**

On the difference between the Effects of an Apparatus of Induction according to the placement of a cylinder of iron or a bundle of iron wires in the bobbin. (From Mattenucci, 1854, p. 137.)

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**Bacon,** Francis Lord. *Born January*, 22, 1561, at *London; died April* 9, 1626, *at Highgate.*

Physiological Remains. (*From his Works, edition of* 1803, vol. ii. p. 215.) *London*, **1648**

**Bacon.** Chart of the Atlantic Telegraph. *London*

† **Baeblich,** H. Das Nordlicht nach den Resultaten der neusten Forschungen erklärt. *Berlin*, **1871**

**Bæckel.** Thèse de l'Ozone. 4to. (*Leiber. Cat. of* 1865, p. 21.) **1856**

**Baehrens,** J. C. F. Beschreibung einer neuen astronom-geometrischen Bussole. *Halle*, **1793**, *und Zusätze dazu* **1794**

**Baer,** W. Elektricität und Magnetismus. Die Gesetze und das Wirken dieser mächtigen Naturkräfte und ihre Bedeutung für das praktische Leben. 8vo. 324 pp. (*Zuchold's Cat.* 1863, p. 145.) *Leipzig*, **1863**

**Baffin,** Wm. In 1612-1616 made voyages in the waters of N. W. America, in which he instituted observations of magnetic declination and inclination.

**Bag.** On Magnetism, or the doctrine of equilibrium. 12mo. *Detroit, U.S.*, **1845**

**Baggs,** Isham. Electric Telegraphy by Steam. (Advert[t] in "*Times*," Dec. 11, 1857.)

† **Bagnolo,** Giovanni Francesco Giuseppe. *Born* 1709 *at Turin; died about* 1760. Lettera intorno all' Aurora Boreale, veduta la notte de' 16 Dec. 1737, e di alcune altre cose erudite . . . (*Calogero, Raccolta*, xx. 189. Original.) 12mo. 29 pp. 1 plate. *Venezia*, **1739**

† **Bähr,** J. K. Ueber die Einwirkung der Reibungs-Elektricität auf das Pendel. 4to. 56 pp. *Dresden*, **1870**

**Baier,** J. W. De Fulmine, fulgure, et tonitru hiemale. **1706**

† **Baille,** J. L'électricité. 2nd edition. 12mo. 344 pp. (*Forms part of Bibliothèque des Merveilles par Charton.*) *Paris,* 1869

**Bailly,** Charles François. *Born May* 3, 1800, *at Merlieux, near Laon.*

**Bailly de Merlieux.** Résumé complet de Météorologie . . . Météores . . . électriques, &c. . . . 32mo. *Paris,* 1830

**Bailly,** Jean Sylvain. *Born September,* 15, 1736, *at Paris; died November* 12, 1793, *at Paris.* Rapport des Commissaires chargés par l'Académie des Sciences de l'examen du Magnétisme animal. 8vo. *Paris,* 1784

† **Bain,** A. On Electro-magnetic Printing Telegraph and Clock. 8vo. (*Vide* Finlaison.) *London,* 1843

A short History of the Electric Clocks, with explanations of their principles and mechanism, and instructions for their management and regulation. 8vo. 31 pp. *London,* 1852

† Mémoire sur les Horloges, les Télégraphes, et les Lochs électriques. 4to. (*Comptes Rendus,* xxi. 885.) *Paris,* 1845

M. Bain présente un Modèle de la Machine qui sert à former les signaux dans son télégraphe électrique. 4to. (*Comptes Rendus,* xxi. 885.) *Paris,* 1845

M. Arago met sous les yeux de l'Acad. deux modèles d'horloges électriques inventés par M. Bain, et un loch, imaginé par le même ingénieur, loch qui donne la mesure, non seulement, comme les appareils ordinaires, de la vitesse du navire à un instant donné, mais de l'espace parcouru dans l'intervalle de deux observations, quelle qu'ait pu etre, pendant ce temps, la variation de la vitesse. 4to. (*Comptes Rendus,* xxi. 923.)

*Note.*—*Moigno, p.* 156, *says that the Memoir on the Log was missing, or suppressed in the Academy.* *Paris,* 1845

The Petition of Alexander Bain. (*Vide* Moigno, 1852, p. 100.) *London,* 1845

Sur quelques améliorations récemment introduites dans les Télégraphes Electriques. 4to. (*Comptes Rendus,* xxx. 478-525.) *Paris,* 1850

† Electric Clocks. 4to. 3 pp. *London,* 1852

Mr. Joseph Whitworth's Special Report, presented to the House February 6, 1854, chap. xi. p. 28, Electric Telegraph. (*The Report is headed New York Industrial Exhibition.*) 1854

Several Articles by Brewster concerning him. . . . (*North British Review.*)

† A Treatise on numerous applications of Electrical Science to the Useful Arts. Part i. 8vo. 35 pp.

Experiments (repeated) in Hyde Park. Moisture of the Earth or Water (natural body of) used as part of the circuit, &c. &c. 4to. (*Literary Gazette, June* 4, 1842.) *London,* 1842

*Vide* also Finlaison, Wright and Bain, and Patents.

† **Bain and Wheatstone.** Controversy on the Electro-magnetic Telegraph Clock and the Electro-magnetic Printing Telegraph. 4to.

*Note.*—This is a collection of four Letters to the Editor of the *Literary Gazette,* inserted in the numbers for June 11 and 18 and August 6 and 20. They have been cut out, and the above title affixed in MS.

*London,* 1842

**Bain** (not Alex.) (*Vide* Reid and Bain.)

† **Bain,** G. Saggio sulla Variazione dell' Ago magnetico . . . Trad. dall' Inglese. 8vo. 148 pp. *Venezia*

**Bain,** W. *Born* 1775, *at Culross, Perthshire; died September* 11, 1853, *at Grange, Essex.* An Essay on the Variation of the Compass, showing how far it is influenced by a change in the direction of the ship's head, with an exposition of the dangers arising to navigators from not allowing for this change of variation. Interspersed with practical observations and remarks. 8vo. 140 pp. 1 chart. *Edinburgh,* 1817

† **Bajon.** *Died* 1790. Descrizione di un Pesce che dà la scossa elettrica conosciuto a Cayenne sotto il nome d'Anguilla tremante. Traduzione. 12mo. (*Scelta d' Opuscoli.*) (*Is this translated from the Phil. Trans.* 1773, p. 481 ? *Vide* Humboldt, p. 50.) *Milano*, 1775

Mémoires pour servir à l'Histoire de Cayenne.

† **Baker,** H. A Letter from H. Baker to the President concerning several medical Experiments of Electricity. Read March 13, 1748. 4to. 6 pp. (*Phil. Trans.* xlv. 270.) *London*, 1748

† A Letter from H. Baker to the President, containing Abstracts of several Observations of Auroræ Boreales lately seen. 4to. (*Phil. Trans.* xlvi. 499.) *London*, 1749-50

† **Baker, Knight, Freeman, Fauquier, Miles, Martin, &c.** A collection of several Papers laid before the Royal Society concerning several Earthquakes felt in England and some neighbouring countries in the year 1750, 4to. (*Appendix to the Phil. Trans. for* 1750, vol. xlvi.) *London*, 1760

† **Baker.** Baker's patent Anti-Incrustator Apparatus for removing scale from Steam Boilers, and preventing its formation. 8vo. (*Principally Testimonials.*) *London*, 1866

**Baker.** (*Vide* Fenwick and Baker.)

**Bakewell.** Electricity : its History . . . and Applications. 8vo. (*From Advertisement.*) *London*, 1853

† **Bakewell,** F. C. A Manual of Electricity, practical and theoretical. Second edition, revised and enlarged. 8vo. 310 pp. *London and Glasgow*, 1857

A Manual of Electricity, theoretical and practical. Third edition, revised and enlarged. 8vo. *London*, 1859

† The Copying Telegraph, invented by Bakewell. 4to. *London*, 1850

*Trial of the Autographic Electric Telegraph of Mr. Bakewell. 4to. (*Literary Gazette, Sept.* 23, 1847.) *London*, 1847

**Balbi,** Paolo Battista. *Born February* 17, 1693, *at Bologna ; died December* 7, 1772, *at Bologna.* Descriptio Ignei Globi per aera improviso excurrentis. 4to. (*Comment. Bononienses*, i. 285.) *Bonon.*

**Balbo,** Prospero, Conte. *Born July* 2, 1762, *at Chieri, Turin ; died March* 14, 1837, *at Turin.*

*Note.*—The great friend and patron of Beccaria ; sons and other relations still living in Turin (1860). Possibly some of Beccaria's valuable or curious MSS. left in his hands may be discoverable.—*F. R.*

Lettere di B. Franklin a G. Beccaria volgarizzate dal conte Prospero Balbo.

(*Note.*—This work begins at p. 145, and forms part of Eandi's Memorie Istoriche di Beccaria, 1783. There are six Letters—1st dated Londra, 29 May, 1766 ; 2nd, Lond. Settem. 1768 ; 3rd, Lond. 11 Agost. 1773 ; 4th, Lond. 25 May, 1774-5 ; 5th, Passy, 19 Nov. 1779 ; 6th, Passy, 19 Feb. 1781.)

**Balcells,** J. Lithologia Meteorica. 4to. *Barcelona*, 1854

**Baldassini,** F. Conte. Sopra gli Animali Microscopici considerati come causa unica della Fosforescenza del Mare, Osservazioni. 8vo. 34 pp. (*Poligrafo*, viii. 1835.) *Verona*, 1835

**Baldi,** L. Memoria sui Telegrafi Elettrici. *Pistoia*, 1851

† **Baldini,** Giovanni Francesco. *Born February* 4, 1677, *at Brescia ; died* . . . 1765, *at Tivoli bei Roma.*) Relazione dell' Aurora Boreale veduta in Roma li 16 Dec. 1737. 12mo. (*Calogera's Raccolta*, xvii. 47.) *Venezia*, 1738

**Baldung.** (*Vide* Waldung.)

† **Baldwin,** L. An Account of a very curious appearance of the Electric Fluid produced by raising a kite in the time of a thundershower ; in a Letter to J. Willard. 4to. (*Memoirs of American Acad.* i. part ii. 257, old series.) *Boston*, 1785

**Baldwin**—*continued.*

† Observations on Electricity, and an improved mode of constructing Lightning-rods; in a Letter to Jos. Willard. 4to. (Letter dated January 25, 1797.) (*Memoirs of American Acad.* ii. part ii. 96, old series.)
*Charlestown U.S.* **1804**

† **Balestrini,** A. La Telegrafia Elettro-magnetica. 12mo. 48 pp. *Torino,* **1851**

† **Balestrini,** P. A. Description du système de Télégraphie sous-marine de M. P. A. Balestrini, par M. P. de Branville. 8vo. 8 pp. (*Mémoires de la Soc. des Ingénieurs Civils.*) *Paris*

**Ball.** The Electric Telegraph applied to meteorological announcements. 8vo. (*Brit. Assoc. Report. Meeting at Swansea in September,* 1852.)
*London,* **1852**

**Ballard.** On the Magnetism of Drills. 4to. (*Phil. Trans.* 1698, p. 417.)
*London,* **1698**

**Ballot.** (*Vide* Buys-Ballot.)

**Balthasar,** Augustin. *Born September* 23, 1632, *at Anclam; died November* 20, 1688, *at Greifswald.* (*Pogg.* i. 95.)

† **Bamberger,** B. Elektricität und Magnetismus, als Heilmittel. 8vo.
*Berlin,* **1854**

† **Bammacaro,** Niccolò. *Born . . . at Neapel; died about* 1778. Tentamen de vi Electrica ejusque phænomenis. 8vo. 202 pp. *Neapoli,* **1748**

† **Bancalari,** Michele Alberto. *Born* 1805, *at Chiavari.* Lettera al Belli sulla repulsione che l'Elettro-magnetismo esercita sulla fiamma e sul fumo. 4to. 1 p. (*Giorn. dell' I. R. Ist. Lomb.* nuova serie, i. 271.) *Milano,* **1847**

**Bancroft,** Edward Nathaniel. Saggio sulla storia naturale della Guiana.
Natural History of Guiana. (*From Prins,* p. 8, *on Electrical Fish.*) (*Humboldt, Voyage,* part ii. *Zoology,* p. 50, *says Essay on Guiana,* 1769, p. 191.)

† **Bangma,** O. S. Wiskundige verhandeling over het aardische Magnetismus. 4to. 75 pp. 1 plate. (*Lid van het Koninklijk Instituut den Wittenschappen Letterkunde en Schoone kunsten.*) *Amsterdam,* **1824**

† **Banks,** Sir Joseph. *Born December* 13, 1743; *died June* 19, 1820.
Biographical Memoir of the late Right Hon. Sir Joseph Banks, Bart. 8vo. (*Phil. Mag.* lvi. 40.) *London,* **1820**

**Bapst** avec **Azais.** Explication et emploi du Magnétisme. 8vo. *Paris,* **1817**

**Bar,** W. Elektricität und Magnetismus. (*Calvary Cat.* No. lxii. 1869, p. 2.)
*Leipzig,* **1863**

† **Barbançois,** Charles Hélion, Marquis de. *Born August* 17, 1760, *at Schloss Villegongis; died March* 17, 1822. Lettre addressée à M. Delametherie, contenant un Essai sur le fluide électrique. 8vo. 70 pp. *Paris,* **1817**

† **B * * *,** le Marquis de (*i. e.* Barbançois.) Deux Lettres écrites en 1819 à M. le Président de l'Acad. . . . La première relative à un système sur l'Electricité; la seconde relative à un Tableau des Sciences. 8vo. 38 pp. and table.
**1819**

**Barber.** (*Vide* Morgan and Barber.)

† **Barberet,** Denis. *Born December* 27, 1714, *at Arnay le Duc, Burgundy; died after* 1776.
Dissertation sur le rapport qui existe entre les phénomènes du Tonnerre et ceux de l'Electricité, qui a remporté le prix. 4to. 16 pp. *Bordeaux,* **1750**
Discours qui a remporté le prix . . . de l'Acad. de Bordeaux en 1850. Phénomènes du Tonnerre et le l'Electricité. 4to. (*Printed in or for the Mém. Acad. Dijon.*) *Dijon,* **1751**
Sur la nature et la formation de la Grêle. 8vo. (*Mém de l'Acad. de Dijon,* tom. i. p. 1.) *Dijon,* **1769**

† **Barbeu du Bourg.** Œuvres de Franklin, traduites de l'Anglais sur la 4me édn. avec additions nouvelles, &c. 2 vols. 4to. 12 plates. *Paris,* **1773**

**Barbier,** A. Recherches sur l'Electricité des Gaz et des Liquides. 8vo. 27 pp. *Bordeaux*, 1858

† **Barbier de Tinan.** Mémoires sur les Conducteurs pour préserver les édifices de la foudre; par l'Abbé Jh. Toaldo; traduits de l'Italien avec des Notes et des Additions, par M. Barbier de Tinan. . . . 8vo. 241 pp. 3 plates. *Strasbourg*, 1779

† (Nuove) Considerazioni sopra i conduttori del Sig. Barbier di Tinan. Traduz. dal Francese. 4to. 43 pp.

*Note.*—This is a printer's translation of Barbier's Considerations sur les Conducteurs en général, appended to his translation of Toaldo's Dei Conduttori per preservare gli edifizj da Fulmini. 4to. 1778, nuova edn. *Venezia*, 1779

† Mémoire sur la manière d'armer d'un Conducteur la Cathédrale de Strasbourg et sa tour. 8vo. 34 pp. (*Volta's copy.*) *Strasbourg*, 1780

† **Barbieri,** Ludovico Duca. *Born June* 24, 1719, *at Vicenza; died after* 1756. Discorso sopra la Generazione e Natura de' Fulmini. 12mo. (*Calogera's Raccolta*, xxx. 291. *Recitato nell' Accad. de Ricoviati in Padova, Maggio*, 1741.) *Venezia*, 1744

† Lettera del Sig. Conte Barbieri al . . . Rev. Sig. D. Domenico S. Della Generazione e Natura de' Fulmini. 12mo. 68 pp. (*Calogera Raccolta d'Opuscoli*, tom. xli. p. 177.) *Venezia*, 1749

† **Barca,** Alessandro. *Born November* 26, 1741, *at Bergamo; died June* 13, 1814, *at Bergamo.*

Conghiettura sulla Elettricità. 12mo. 6 pp. (*Scelta d'Opuscoli*, xvii. 87.) *Milano*, 1776

**Barca,** G. M. Opere in Latino. *Messina*, 1756 (?)

**Bardenfleth.** Om Orkaner. . . . 4to. 70 pp. (*Kopenh. Acad.*) *Kopenhagen*

**Bardenot,** J. R. P. Les Recherches . . . de Bichat sur la Vie et la Mort réfutées. 8vo. *Paris*, 1824

† **Barham,** H. A Letter to the Publisher, giving a relation of a Fiery Meteor seen by him, in Jamaica, to strike into the earth; with Remarks on the Weather, Earthquakes, &c., of that island. 4to. 2 pp. (*Phil. Trans. for* 1718, p. 837.) *London*, 1718

† **Barker,** C. On various Electrical Apparatus, &c. Letter to Editor, 30th August, 1839. (*Roget's copy.*) (*Annals of Electricity*, iv. 22.) *London*, 1839

† **Barker,** F. Dissertatio Physiologica inauguralis de inventu Galvani, vulgo, animalium electricitate. 8vo. 34 pp. (*Brugnatelli's copy.*) (*Giornale Fis. Med. di Brugnatelli, An.* ix. 1796, p. 58.) *Pavia*, 1796

† **Barker,** Thos. An account of an extraordinary Meteor seen in the county of Rutland, which resembled a waterspout. 4to. 2 pp. (*Phil. Trans.* xlvi. 248.) *London*, 1749-50

† **Barker.** Mariner's Compass, with letter-press Instructions. Card-plate and. movable diagram. *London*, 1860

† **Barletti,** Carlo. *Died February*, 1800, *at Milan.*

Nuove Sperienze Elettriche, secondo la Teoria del Sig. Franklin e le produzioni del P. Beccaria. 8vo. 134 pp. *Milano*, 1771

† Physica specimina. (Electricitas.) 8vo. 184 pp. 1 plate. *Mediolani*, 1772

† Lettera al Volta sopra d'un nuovo Elettroforo. 12mo. 4 pp. (*Scelta d'Opuscoli*, xiv. 97.) *Milano*, 1776

† Dubbii e Pensieri sopra la Teoria degli Elettrici Fenomeni. (There is a Letter to Volta at p. 118.) 8vo. 136 pp. 1 plate. *Milano*, 1776

† Analisi di un nuovo fenomeno del Fulmine ed Osservazioni sopra gli usi medici della Elettricità. 4to. vi. 63 pp. 1 plate. *Pavia*, 1780

† Introduzione a nuovi principii della Teoria Elettrica dedotti dall' analisi de' fenomeni delle elettriche punte. Parte Prima. 4to. 54 pp. (*Mem. Soc. Ital.* tom. p. 1.) *Verona*, 1782

**Barletti**—*continued.*

† Introduzione a nuovi principii della Teoria Elettrica dedotti dall' analisi dei fenomeni delle elettriche punte. Parte Seconda. 4to. 122 pp. (*Mem. Soc. Ital.*. tom. ii. p. 1.) *Verona*, **1784**

† Fisica particolare e generale in Saggi . . . 4 volumi. Tomi i. ii. iii. di Calore, Meteorologia, Aerologia, Ottica. 8vo. *Pavia*, **1785-86**

Descrizione de' fulmini di Porta Comasina, e del Duomo di Milano, e de' confronti loro coi principali effetti dei fulmini. **1785**

Dei Conduttori del fulmine . . .

† Saggio analitico di alcune lucide Meteore. 4to. 38 pp. (Previously published in his Fisica particolare e generale, tom. ii.) (*Mem. Soc. Ital.* iii. 331.) *Verona*, **1786**

† Della supposta eguaglianza di contraria Elettricità nelle due opposte facce del vetro, o di un strato resistente, per ispiegare la scarica o scossa della boccia di Leyden. 4to. 6 pp. (*Mem. Soc. Ital.* iv. 304.) *Verona*, **1788**

† D'immutabile capacità, e necessaria contrarietà di eccesso e difetto di Elettricità negli opposti lati del vetro, o di altro strato resistente supposta da Franklin, per la spiegazione della carica e della scarica Elettrica nella boccia Leidense. 4to. *Verona*, **1794**

† **Barlocci,** Saverio. *Born December* 3, 1784, *at Rome; died May* 25, 1845, *at Rome.* Congetture sull' origine de' Fuochi Vulcanici. 8vo. 10 pp. (*Giornale dell' Ital. Letteratura di Da Rio.* v. 38.) *Padova*, **1803**

Esame comparativo di alcune ipotesi relative alla Elettricità atmosferica. 4to. (*Giornale Arcadia-Roma.*) *Roma*, **1818**

† Saggio di Elettro Magnetismo dedotto dagli esperimenti instituiti nel gabinetto fisico della Università di Roma. 8vo. 74 pp. *Roma*, **1826**

Sulla influenza della luce solare nella produzione dei fenomeni Elettrici e Magnetici. 8vo. 16 pp. *Roma*, **1829**

Lezioni di Fisica sperimentale. 2 vols. 8vo. (*Bibliot. Ital.* lxxxv. 109, *and* lxxxvii. 414.) *Roma*, **1836-37**

Fisica sperimentale (*Zantedeschi*, ii. 122.) *Roma*, **1837**

**Barlocci e Zantedeschi.** Congetture sulla origine dell' Elettricità atmosferica (di Barlocci). Corredata di alcune note del . . . F. Zantedeschi. 8vo. 18 pp. *Verona*, **1831**

Congetture . . . corredata di note del Zantedeschi . . . Continuazione e fine. 8vo. 14 pp. *Verona*, **1831**

**Barlow,** Jas. (of New York). A new Theory accounting for the dip of the Magnetic Needle; being an analysis of Terrestrial Magnetism. 8vo. *New York*, **1835**

† **Barlow,** Peter. *Born October* 13, 1776, *at Norwich.* An Essay on Magnetic Attractions, particularly as respects the deviation of the Compass on shipboard, occasioned by the local influence of the guns, &c., with an easy practical method of observing the same in all parts of the world. 1st edition. 8vo. 145 pp. 1 plate. *London*, **1820**

† A curious Electro-magnetic Experiment. 8vo. 2pp. (*Phil. Mag.* lx. 241.) *London*, **1822**

† On the anomalous Magnetic Action of Hot Iron between the white and blood-red heat. 8vo. 8 pp. (*Phil. Mag.* lx. 343.) *London*, **1822**

† An Account of some Electro-magnetic combinations for exhibiting Thermometric Phenomena, invented by Mr. James Marsh, of Woolwich; with Experiments on the same. 8vo. 7 pp. 1 plate. (*Phil. Mag.* lxii. 321.) *London*, **1823**

† An Essay on Magnetic Attractions, and on the Laws of Terrestrial and Electro Magnetism. 2d edition, much enlarged and improved. 8vo. 303 pp. *London*, **1823**

† An Essay on Magnetic Attractions; and on the Laws of Terrestrial and Electro Magnetism. With an Appendix, containing the results of Experiments made on shipboard from latitude 61° S. to latitude 80° N. 2nd edition. 8vo. 368 pp. *London*, **1824**

**Barlow**, Peter—*continued.*

† Electro-Magnetism. 4to. 40 pp. and plates. (*Encyclopædia Metropolitana*, iv. 1-40.) *London*, 1824

† On the present situation of the Magnetic Lines of equal variation; and their changes on the terrestrial surface. 4to. (*Phil. Trans.*) *London*, 1833

† Magnetism. (Article of the *Encyclopædia Metropolitana.*)

Encyclopædia of British Arts, Manufactures, &c. 4to. *London*, 1855

† **Barlow**, W. H. On the spontaneous Electrical Currents observed in the wires of the Electric Telegraph. 4to. 12 pp. (*Phil. Trans.* part i. 1849.) *London*, 1849

**Barlowe**, William. *Born . . . in Pembrokeshire; died* 1625 *in Easton, Winchester.* Magneticall Advertisements. 4to. 1613

Magneticall Advertisements; or, divers Observations concerning the Loadstone. 4to. *London*, 1616

† Magneticall Advertisements; or, Divers pertinent Observations and approved Experiments concerning the nature and properties of the Load-stone. Whereunto is annexed a briefe Discoverie of the idle Animadversions of Mark Ridley, Dr. in Physike, upon this Treatise entituled Magneticall Advertisements. 2d edition, sm. 4to. *London*, 1618

† **Barlowe**, W. and **Sturgeon.** Magnetical Advertisements; or, diverse pertinent Observations and approved Experiments concerning the nature and property of the Loadstone. A new edition, with Notes by W. Sturgeon. *London*, 1843

**Barnes**, Robt. The use of Galvanism in Obstetric practice. 8vo. (*Lancet*, 1853, vol. ii. No. xxii. 456.) (*London*, 1853

**Barneveld**, William van. *Born January* 20, 1747, *at Hattem; died June* 23, 1826, *at Hattem.*

Het onwecsvuur in zyne en rigting en uitwerkels nagespoort mit de elektrische Stoffen vergeleken, etc. (*Poggendorff*, i. 104.) *Amsterdam*, 1780

Genecskundige Electriciteit, iii. stukken. (*From Guitard.*) *Amsterdam*, 1785

Medicinische Elektricität. 8vo. *Leipzig*, 1787

† **Baronio**, Gio. Saggio di naturali Osservazioni sulla Elettricità Voltiana, colla descrizione d'una nuova macchina a corona di persone e di un piliere tutto vegetabile. 8vo. 144 pp. *Milano*, 1806

† **Baronio**, Jos. Description of a Galvanic Pile formed of vegetable materials only. 8vo. 2 pp. (*Phil. Mag.* xxiii. 283.) *London*, 1806

**Barrington**, Daines. *Born* 1727; *died March* 11, 1800, *in London.*

Anglo-Saxon version of the Historiæ of Orosius, by Alfred the Great, with an English translation from the Anglo-Saxon, containing Accounts of Wars, Plagues, &c., Thunder and Lightnings, &c., from the Creation to A.D. 416. 8vo. *London*, 1773

**Bartaloni**, D. Lettera sopra il fulmine caduto nel dì 18 Ap. 1777, sulla spranga posta nella torre del palazzo pubblico della città di Siena. 8vo. (*There is also an English translation of the above.*) *Siena*, 1777

† Mem. sul conduttore Elettrico collocato nella torre della Piazza di Siena. 4to. 36 pp. 1 plate. (*Atti dell' Accad. di Siena*, vi. 253. 1781.) *Siena*, 1781

† Relazione sopra un supposto Fulmine caduto nella Cappella della Piazza di Siena il dì 7 Giugno dell' Anno 1784. 4to. 8 pp. (*Atti dell' Accad. di Siena*, vii. 61.) *Siena*, 1794

**Barth**, Johann Matthäus. *Died after* 1751.

De rariori quodam phænomeno cum terræ motu conjuncto, Ratisbonæ observato. 4to. (*Acta Acad. Nat. Curios.* iv. 491.) *Norimbergæ*

† De luce Barometrorum ut et aliis connexis argumentis, Epistola. 4to. 70 pp. *Lipsiæ*, 1716

**Bartholinus**, Thomas. *Born October* 20, 1616, *at Kopenhagen; died December* 4, 1680, *at Hagested.* (*Poggendorff*, i. 109.)

**Bartholinus**—*continued.*

† De luce animalium, lib. iii. admirandis historiis rationibusque novis referti. small 8vo. 396 pp. *Lugd. Batav.* **1647**

De luce hominum et brutorum, libri iii. novis rationibus et raris historiis secundum illustrati. 12mo. *Hafniæ*, **1659**

De naturæ mirabilibus, questiones academicæ. 4to. *Hafniæ*, **1674**

**Barton,** Sir John. Invented a floating Compass (schwimmenden Compass).

† **Barton,** B. S. On Meteoric Stones. Extr. from Valentia M. B. in the Epimenides Naturæ Curiosorum. Crystallus inter grandines e nubibus decidens. Anno 1724. 8vo. 2 pp. (*Phil. Mag.* xlvi. 154.) *London*, **1815**

† **Bary,** Emile Louis François. *Born January* 13, 1799, *at Paris.*

Statique appliquée au Magnétisme. Note sur la manière de corriger .... Boussoles. 8vo. 8 pp. 1 plate. (*Nouv. Ann. de Mathémat. Juin* 1844.) *Paris*, **1844**

**Basevi,** Emile. Sulla Conducibilità Elettrica del Vetro ridotto in fili o lamine. *Pisa*, **1841**

**Basilius.** (*Vide* Sinner-Basilius.)

**Basin.** (*Vide* Anon. Magnetism, 1753.)

**Basle.** Acta Helvetica Physico-mathematico-botanico-medica. 8 vols. 4to. *Basel*, **1751-77**

Nova Acta . . . 1 vol. 4to. **1787**

**Basse,** F. H. Galvanische Versuche und Betrachtungen, die Leitung des galvanisch-elektrischen Fluidums, betreffend; angestellt mit einer Voltaischen Säule aus 70 zweizölligen Metallplatten-Paaren von Kupfer und Zink. 8vo. (*Gilbert's Ann.* xiv. 26-37.) *Leipzig*, **1804**

* **Battagia.** Delle Accademie Veneziane. Dissertazione storica. 8vo. 136 pp. *Venezia*, **1826**

† **Baudouin,** F. M. Observations sur le mode d'établissement des lignes Télégraphiques sous-marines. 8vo. 31 pp. *Paris*, **1858**

**Bauer,** Fulgentius. *Born* 1731; *died March* 3, 1865, *at Vienna.*

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† **Bauer, Marherr, und Kirchvogel.** Experimental Abhandlung von der Theorie und dem Nutzen der Electricität. Von F. Bauer. (Aus dem Latinis von L.D.)

Abhandlung von der Wirkung der Luft-Elektricität in dem menschlichen Körper. Von P. A. Marherr. (Aus dem Latinis von L.D.)

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**Baumé,** Antoine. *Born February* 26, 1728, *at Senlis; died October* 15, 1804, *at Paris.* Chymie expérimentale, &c. 3 vols. 8vo. *Paris*, **1773**

**Baumer,** Johan Wilhelm. *Born September* 10, 1719, *at Rehweiler, Frank.; died August* 4, 1788, *at Giessen.*

Progr. de Electricitatis effectibus in corpore animali. 4to. *Erfurth*, **1755**

**Baumes.** Réflexions sur le Galvanisme. (*Journal de Médecine, ou Annales de la Soc. de Méd. pratique de Montpellier, Germinal, an.* xi. No. iii.) *Montpellier*, **1803**

**Baumgartner,** Andreas. *Born November* 28, 1793, *at Friedberg, Bohm.*

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Anfangsgründe der Naturlehre. 3 Auflagen. (*Poggendorff*, i. 118.) *Wien*, **1837**

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† Weitere Versuche über den elektrischen Leitungswiderstand der Erde. 8vo. (*Sitzungsbuch der Königlichen Akad.* 1849, v. *und* vi. *Heft*, p. 28.) *Wien*, 1849

† Nachtrag zu meinem Aufsatz. Von der Umwandlung der Wärme in Elektricität. 8vo. 6 pp. (*Sitzungsberichte . . . der Kain. Akad. der Wissen.* xxxii.) *Wien*

Ueber die Leitkraft der Erde für Electricität. (*Sitzungsberichte der Wien Akad.* ii. 28.) *Wien*

*Vide* also Ettingshausen und Baumgartner.

† **Baumgartner e Zambra.** Elementi di Fisica di A. Baumgartner. Traduzione e Continuazione di B. Zambra. 8vo. 296 and 189 pp. *Vienna*, 1858

† **Baumgartner,** A. Freih. Ueber Gewitter uberhaupt, Hagelwetter insbesondere. 8vo. 26 pp. (*Sitzungsberichte*, 1857, *der Kaiserl. Akad. der Wissenschaften*, xxiii.) *Wien*, 1857

† Von der Umwandlung der Wärme in Elektricität. Sitzung 13 Nov. 1856. 8vo. 12 pp. *Wien*, 1857

**Baumhauer,** Eduard Heinrich. *Born September* 18, 1820, *at Brüssel.*

De ortu lapidum Meteoricum. 8vo. *Trajecti*, 1844

**Bavarian Academy.** Abhundlungen der kurfürstl. Baierschen Akademie der Wissenschaften. 4to. *München*, 1764-76

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*Note.*—This collection seems to have been continued under the same title, with various intervals and modifications, down to the present time [1866]; but the difficulty of obtaining correct dates, &c. from Heinsius is too great (or impossible.) Other authorities must be consulted.

† **Baxter,** H. F. An Experimental Enquiry, undertaken with a view of ascertaining whether any and what signs of current electricity are manifested during the organic process of secretion in living animals; being an attempt to apply some of the discoveries of Faraday to physiology. 4to. (*Phil. Trans.* 1848, p. 243.) (*Faraday's copy.*) *London*, 1848

† **Bazin,** Gilles Augustin. *Born . . . in Paris; died March*, 1754.

Description des Courants Magnétiques dessinés et gravés d'après la nature; suivies de quelques observations sur l'Aimant, par * * * 4to. 52 pp. *Strasbourg*, 1753

† Supplément pour la Description des Courants Magnétiques. 4to. *Strasbourg*, 1754

† **Beardmore,** S. Terra-Voltaism. Remarks on the Application of a Terra-voltaic Couple to Submarine Telegraphs. 8vo. 51 pp. *London*, 1860

**Beardmore**—*continued.*

† The Globe Telegraph. An Essay on the Use of the Earth for the Transmission of Electric Signals. 8vo. *London*, 1859

**Beatson.** On Shocks and Tones produced when the passage of the Current of the Spiral is renewed at very small intervals of time. pp. 242. (*Vide* Matteucci.)

† **Beauchamp,** Lord. An Account of the Fire-ball seen in the Air, and of the Explosion heard on December 11, 1741, by Lord B. 4to. 2 pp. (*Phil. Trans.* xli. 870-71.) *London*, 1839-41

(*Vide* also Fuller.)

† **Beaufoy,** Mark. Variation of the Magnetic Needle. Observations near Stanmore. Correction of Error. 8vo. (*Phil. Mag.* liii. 387.) *London*, 1819

† Variation of the Magnetic Needle. 8vo. (*Phil. Mag.* lv. 394.) *London*, 1820

**Beaume.** (*Vide* La Beaume.)

† **Beaumont-Brivazac.** Electro-Magnetism, Animal. 8vo. 23 pp. *Grenoble*, 1861

**Beccari,** Jacopo Bartolomeo. *Born July* 25, 1682, *at Bologna; died January* 18, 1767, *at Bologna.* Auroræ Borealis maximæ, anno 1726, ad xiv. Kal. Nov. descriptio. 4to. (*Comment. Bononienses*, tom. i. c. p. 288.) *Bononiæ*, 1731

† De quamplurimis phosphoris nunc primum detectis. Commentarius. 4to. 85 pp. *Bononiæ*, 1744

† De quamplurimis phosphoris nunc primum detectis. Commentarius (primus). 4to. 44 pp. (*Comment. de Bonon. Scient. Instit.* tom. ii. parte ii. p. 136.) *Bononiæ*, 1746

† De quamplurimis phosphoris nunc primum detectis. Commentarius. 4to. 22 pp. (*Comment. de Bonon. Scient. Instit.* tom. ii. parte iii. p. 498.) *Bononiæ*, 1747

† Commentarii duo, de phosphoris naturalibus (ex actis Bononiensibus excerpti.) 8vo. 113 pp. *Graecii*, 1768

Electricitas vindex experimentis atque observ. stabilita. 8vo. *Grätz*, 1773

† De artificiali electricitate ex Benj. Franklini theoria, quam confirmavit, expolivit, auxitque. 4to. 15 pp. *Torino, n. d.*

De electricitate communi. 4to. (*Comment. Bononienses*, iv. p. 88.) *Bononiæ*

**Beccari, J. B., et Bonzi.** De vi, quam ipsa per se Lux habet, non colores modo, sed etiam texturam rerum salvis coloribus, immutandi. 4to. (*Comment. Bononienses*, iv. c. p. 74.) *Bononiæ*

**Beccaria,** Giovanni Battista. *Born October* 3, 1716, *at Mondovi; died May* 27, 1781, *at Turin.*

† Dell' elettricismo artificiale e naturale. Libri due. 4to. *Torino*, 1753

Giunta al primo libro della Elettricità naturale. 4to. *Torino*, 1753

† Lettre sur l'Electricité, addressée à Nollet. Traduite de l'Italien par De Lor. 12mo. (This is a translation of Beccaria's *Lettera al Nollet*, inserted at p. 144 of his *Dell' Elettricismo artificiale e naturale.* 4to. *Torino*, 1753.) *Paris*, 1754

† Scientiarum Academicis Londinensibus atque Bononiensibus. (*Questa lettera fu, dallo stesso autore soppressa. Vide* Eandi Vita *** di Beccaria, p. 154.) *Taurini*, 1756

† Dell' Elettricismo. Lettere di G. Beccaria, dirette all' Ch. Sig. G. B. Beccari, coll' Appendice di un nuovo Fosforo descritto all' illust. Sig. Conte Ponte di Scarnafigi . . . Fol. 378 pp. *Bologna*, 1758

Experiments in Electricity. 4to. (*Phil. Trans.* 1760, p. 514.) *London*, 1760

† (Lettera) a sua Altezza Reale il Sig. Duca di York. Sperienze, ed Osservazioni. 4to. 16 pp.

(*Note.* On the Action of the Electric Spark and Lightning on Air; on the Magnetic Direction given to Bodies by Lightning, &c.) *Torino*, 1764

**Beccaria**—*continued.*

Novorum quorumdam in re electrica experimentorum specimen, quod Regiæ Londinensi Societati mittebat die 26 Aprilis, 1766. T. B. B. . . . Fol. (*Letto alla Soc. Reale di Londra*, il 4 Giugno, 1767, ed inserito nelle *Transaz. di quell' anno*, lvii. p. 297.) *Taurini*, 1766

† Novorum quorumdam in re electrica experimentorum specimen quod Regiæ Londinensi Societati mittebat die 14 Jan. anno 1766. T. B. B. Fol. 4 pp. (*Phil. Trans.* 1766. lvi. 105.) *Taurini*, 1766

A Paper on the Pekin Experiments. 4to. (*Phil. Trans.*) *London*, 1766 *or* 1767

† De electricitate vindice ad B. Franklinium . . . Epistola (date 20 February.) Fol. *Taurini*, 1767

*Note.—The letter to which he refers, addressed to Franklin, was never printed.*

† Experimenta atque Observationes quibus electricitas vindex late constituitur et explicatur. 4to. 1 plate. 66 pp. *Taurini*, 1769

† De atmosphæra electrica. Ad Regiam Londinensem Societatem libellus. Fol. 7 pp. (*Phil. Trans.* 1770. lx. 277.) *Taurini*, 1769

† Elettricismo artificiale (al Duca di Chablis). 4to. 439 pp. and plates. *Torino*, 1772

† Della elettricità terrestre atmosferica a cielo sereno, Osservazioni. 4to. (Dedicate a sua Alt. Rle. il Sig. Principe di Piemonte.) 54 pp. *Torino*, 1775

† A Treatise upon Artificial Electricity, in which are given Solutions of a number of interesting Electric Phenomena hitherto unexplained. To which is added an Essay on the mild and slow Electricity which prevails in the Atmosphere during serene weather. (Translated from the original Italian of Father Giambattista Beccaria.) 4to. 457 pp. 11 plates. *London*, 1776

† Articolo di Lettera . . . al Landriani sullo spezzamento de' vetri nell' atto della scarica, e sopra un nuovo Elettrometro. 12mo. 7 pp. (Date, Torino, 25 Dec. 1775.) *Milano*, 1776

† Occhiale elettrico per ispiare la luce nella scossa della Torpedine. 12mo. 5 pp. (*Scelta d' Opuscoli*, xix. 87.) *Milano*, 1776

† Lettera al Sig. Le Roy, sulle Stelle-cadenti. 12 mo. 12 pp. (*Says that a falling star struck his kite. So also in his letter to Beccari*, p. 110, &c. *Scelta d' Opuscoli*, xxi. 86.) *Milano*, 1776

† Articolo di lettera . . . intorno a due nuovi punti di analogia del Magnetismo indotto dal Fulmine ne' Mattoni e nelle Pietre ferrigne. 12mo. 5 pp. (*Scelta d' Opuscoli*, xxxii. 40.) *Milano*, 1777

† Lettera al Fromond sul cangiamento di colore prodotto dal fuoco. 4to. 5 pp. (*Opuscoli Scelti*, ii. 378.) *Milano*, 1779

† Poscritta alla Lettera al Fromond. 4to. 4 pp. *Milano*, 1779

† Articolo d' altra Lettera. 4to. 1 pp. *Milano*, 1779

† De' Fiori elettrici. Lettera al Cavallo. 4to. 7 pp. (*Opuscoli Scelti*, iii. 243.) *Milano*, 1780

† Lettera al . . . Priestley . . . intorno all' azione dal fuoco elettrico sulle calci metalliche. 4to. 6 pp. (*Opuscoli Scelti*, iii. 377.) *Milano*, 1780

† Descrizione di un suo nuovo disegnatore del Fulmine (Ceraunografo). 8vo. 20 pp. 1780 (?)

† Nuovi sperimenti per confermare ed estendere la meccanica del fuoco elettrico. 4to. 19 pp. *Torino*, 1780

† Articolo di lettera all' Amoretti sulla luce delle Lagrime Britanniche. 4to. Dated Torino, 16 Agosto, 1780. Original. (*Opuscoli Scelti*, iii. 284.) *Milano*, 1780

† *Vide* his Letter to Fromond, dated Torino, 27 Genna. 1754, describing his Experiments, intended to prove that Electric Motions do not occur *in vacuo*. 4to. (Contained in Bianchi's *Elogio di Fromond*, p. 42.) *Cremona*, 1781

Elogio di Beccaria, di Tana. 8vo. (printed on vellum). *Torino*, 1781

**Beccaria**—*continued.*

Al Sig. Conte Cotti di Brusasco per la laurea . . . . Intorno alla naturalezza della cagione efficiente de' Temporali, e de' fenomeni compagni. 8vo. *Torino*, 1781

† Memorie istoriche intorno agli studii del Padre Giambattista Beccaria (di Eandi, G. A.) 8vo. 116 pp *Torino*, 1783

(*Note.—The edited works are named in order of their dates. The unedited comprise very many works on* Thunder Conductors, St. Elmo Fire, Auroræ, Electricitas-vindex, &c.)

† Dell' elettricismo. Opere del Beccaria con molte note nuovamente illustrate. 2 vols. 4to. *Macerata*, 1793

A Letter or Dissertation to Count San Martino della Motta on Earthquakes (in which he refers to his works of 1753 and 1758.) 1793

Letter to the Princess Giuseppina di Carignano, on the Electricity of the Moon. 1793

Elogio del P. Beccaria (Anonymous). 8vo. (*From Opus. Scelti*, v. 19.) *Torino*

† Notizia storica di Giambattista Beccaria, scritta da A. M. Vassalli Eandi. 8vo. 22 pp. (*Lo Spettatore*, tom. v. p. 101.) *Milano*, 1816

(*Note.*—He left in the hands of Count Balbo fourteen Letters on Lightning, and one, "su i Baleni a caldo," *ready for printing;* also another, not quite completed, on Auroræ Boreales; beside "un' infinità d'altri lavori non meno importanti, e degni tutti *nello stato in cui sono* d'essere donati al pubblico." These consist of Observations of the Effects of Lightning, Papers on Zodiacal Light, on Marine Waterspouts, on St. Elmo Fire, on the Effect of the Stroke of Lightning on the Tower at Siena, "sulla maniera di preservare gli edifizii dai Fulmini e specialmente i magazzini della polvere," and of Two Journals of Observations, one of Atmospheric Electricity, the other of Earthquakes and Atmospheric Electricity.)

(*N.B.* Sons and other relations of Count Balbo were recently living at Turin.)

† Portrait. Vercel del. Fiori sculp.

**Becher,** A. B. La aguja de las tormentas, ó sea Manual sobre huracanes para uso del navegante. Con la teoria de los huracanes puesta al alcance de todos. Puesto en castellano por D. Miguel Lobo. Con un apéndice que contiene el uso de la rosa transparente de Talco, tomada de la obra de Mr. Piddington. 8vo. 96 pp. *Barcelona*, 1856

**Beck,** Dominicus. *Born September* 27, 1732, *at Oepfingen b. Ulm; died February* 22, 1791, *at Salzburg.*

Beschreibung einer elektrischen Flinte. (*Pogg.* i. 125.) *Salzburg*, 1780

Fassliche Unterredung, Gebäude vor dem Einschlagen des Blitzes zu bewahren. 8vo. (*Heinsius*, i. 210.) *Salzburg*, 1786

† Kurzer Entwurf der Lehre von der Elektricität . . 8vo. 196 pp. *Salzburg*, 1787

**Beckensteiner,** C. Electrodoreur. 1841

† Etudes sur l'Electricité. Organes électriques chez l'Homme, ou corpuscules de Pacini, par les Drs. Heule et Kœlliker. Précédées d'Observations sur l'Electricité Animale. 8vo. 1re livraison. 72 pp. *Paris and Lyon*, 1847

† Etudes sur l'Electricité. Nouvelle Méthode pour son emploi médical. 8vo. 340 pp. *Paris*, 1852

† Etudes sur l'Electricité. Traitement de l'Epilepsie par l'Electricité statique. Nouvelle Méthode. 8vo. 80 pp. 1 plate. Extrait du tom. iii. 1re livraison. *Paris, Lyon, Leipzig*, 1859

† Etudes sur l'Electricité. Nouvelle Méthode pour son emploi médical. Traitement de l'Epilepsie; Traitement de la Chorée, ou Danse de St. Guy, &c. 3 vols. 8vo. 2nd edition. *Paris*, 1859-60

† Etudes sur l'Electricité. Traitement de la Chorée, ou Danse de St. Guy, par l'Electricité statique. Extrait du tom. iii. 8vo. 30 pp. 2me livraison. *Paris, Lyon, Leipzig*, 1860

**Beckensteiner**—*continued.*

† Etudes sur l'Electricité. Nouvelle Méthode pour son emploi médical. Tom. ii. 8vo. 320 pp. *Paris*, 1870

**Becker**, Christian August. *Born August* 24, 1792, *at Mühlhausen.*

Der mineralische Magnetismus . . . Heilkunst. 8vo. 202 pp. *Mülhausen*, 1829

† **Becket**, J. B. An Essay on Electricity, containing a Series of Experiments introductory to the study of that Science, in which are included some of the latest Discoveries, intended chiefly with a view of facilitating its application and extending its utility in Medical Purposes. 8vo. 151 pp. *Bristol*, 1773

**Beckmann**, Johann. *Born June* 4, 1739, *at Hoya; died February* 3, 1811, *at Göttingen.*

Physikal-ökonomische Bibliothek. 23 vols. 8vo. (jede bd. in 4 st.) *Gottemburg*, 1770-1807

Beiträge zur Geschichte der Erfindungskunst. 8vo. 5 bde. zu 4 stck. (*Poggendorff*, i. 127, *says* 1784-1805.) *Leipzig*, 1780-1805

Geschichte der Erfindungen. 8vo. 2nd edit. (*From Exleben*, 489.) *Leipzig*, 1783

History of Inventions and Discoveries. 3 vols. 8vo. *London*

History of Inventions and Discoveries. Translated by Johnson. 4 vols. 8vo. 1814

**Becquerel**, Antoine Cesar. *Born March* 8, 1788, *at Chatillon-sur-Loing, department du Loiret; died January* 18, 1878, *Paris.*

Expériences sur le Développement de l'Electricité par la Pression. Lois du Développement. 8vo. (*Poggendorff says Ann. Chim.* 1823, vol. xxii.) *Paris*, 1823

† Experiments on the Development of Electricity by Pressure. Laws of this Development. Continuation. 8vo. 12 and 8 pp. (*From Ann. de Chim.* xxii. 5. *Vide also Phil. Mag.* lxii. 204 and 263.) *London*, 1823

† Du Développement de l'Electricité par le Contact de deux Portions d'un même Métal . . 8vo. 20 pp. (*Lu à l'Acad.* 16 *Juin*, 1823; *Ann. de Chim.* xxiii. 1823.) *Paris*, 1823

† Des Effets Electriques qui se développent pendant diverses Actions Chimiques. 8vo. 13 pp. (*Lu à l'Acad.* 7 *Juin*, 1823; *Ann. de Chim.* xxiv. 1823.) *Paris*, 1823

Des Actions Magnétiques (ou . . . analogues) produites dans tous les Corps par l'Influence de Courants Electriques très énergiques. 8vo. 9 pp. (*Lu à l'Acad.* 1 *Mars*, 1824; *Ann. de Chim.* xxv. 1824.) *Paris*, 1824

† Mémoire sur les Décompositions Chimiques opérées avec des Forces Electriques à très-petite tension. 4to. 11 pp. (*Lu le* 21 *Août*, 1826; *Mém. de l'Acad.* xi. 33.) *Paris*, 18—

† Mémoire sur les Actions Magnétiques excitées dans tous les Corps par l'Influence d'Aimants très-énergiques. 4to. 13 pp. (*Lu le* 17 *Septembre*, 1827; *Mém. de l'Acad.* xi. 45.) *Paris*, 18—

Mémoire sur l'Electro-chimie et l'emploi de l'Electricité pour opérer des Combinaisons. 8vo. 40 pp. (*Ann. de Chim.* xli. 15.) *Paris*, 1829

Mémoire sur le Pouvoir Thermo-électrique des Métaux. 4to. 21 pp. (*Lu* 3 *Août*, 1829, *à l'Acad.; Paris Acad.* 1829.) *Paris*, 1829

Mémoire sur les Sulfures, Iodures, Bromures, &c., métalliques. 4to. 12 pp. (*Acad. Paris.*) *Paris*, 1829

Mémoire sur de Nouveaux Effets Electro-chimiques propres à produire des Combinaisons, et sur leur Application à la Cristallisation du Soufre et d'autres Substances. 4to. 15 pp. (*Lu à l'Acad.* 25 *Janv.* 1830; *Acad. Paris.*) *Paris*, 1830?

Mémoire sur un Procédé Electro-chimique pour retirer le Manganèse et le Plomb des Dissolutions dans lesquelles ils se trouvent. 4to. 7 pp. (*Lu à l'Acad.* 3 *Mai*, 1830; *Acad. de Paris.*) *Paris*

† Decomposition of Sulphuret of Carbon by Electricity. 8vo. (*Phil. Mag. or Annals*, vii. 61; *Ann. de Chim. Sept.* 1829.) *London*, 1830

**Becquerel**, A. C.—*continued.*

† Considérations générales sur les Décompositions Electro-chimiques, et la Réduction de l'Oxide de Fer, de la Zircone et de la Magnésie, à l'aide de Forces Electriques peu considérables. 4to. 11 pp. (*Mém. de l'Acad.* tom. xii. p. 581.) *Paris*, 1833

† Traité Expérimental de l'Electricité et du Magnétisme, et de leurs Rapports avec les Phénomènes Naturels. 8vo. tom. i. and ii. *Paris*, 1834

Résultat d'un Voyage fait en Suisse, en Piémont, et en Italie, avec M. Brachet. Expériences sur le Magnétisme Terrestre . . sur l'Electricité atmosphérique, sur la Commotion Electrique de la Torpille, &c. 4to. (*Comptes Rendus*, i. 242.) *Paris*, 1835

† Traité Expérimental de l'Electricité et du Magnétisme. 1 vol. 8vo. tom. iii. 450 pp. *Paris*, 1835

† Traité Expérimental de l'Electricité et du Magnétisme. 1 vol. 8vo. tom. iv. 333 pp. *Paris*, 1836

Rapport sur divers Mémoires de M. Matteucci concernant l'Electricité Animale en général, et particulièrement les Phénomènes de la Torpille. 4to. (*Comptes Rendus*, v. 788.) *Paris*, 1837

† De quelques Propriétés nouvelles relatives au Pouvoir Phosphorescent de la Lumière Electrique. 4to. 7 pp. (*Comptes Rendus*, viii. No. 7.) *Paris*, 1839

† Traité Expérimental de l'Electricité et du Magnétisme. 8vo. Tom. v. is in 2 parts. First part, dated 1837, 316 pp. 2 plates; second part, dated 1840, 288 pp. 5 plates. *Paris*, 1837-40

† Traité Expérimental de l'Electricité et du Magnétisme. Tom vi. in 2 parts. First part, dated 1840, 440 pp. 5 plates; second part, dated 1840, 547 pp. 18 plates. *Paris*, 1840

† Traité Expérimental de l'Electricité et du Magnétisme. Fol. Atlas pour la 2e partie du 5e vol. et le 6e et le 7e vol. *Paris*, 1840

† Traité de Physique considerée dans ses Rapports avec la Chimie et les Sciences Naturelles. 8vo. tom. i. 544 pp. *Paris*, 1842

† Eléments d'Electro-chimie appliquée aux Sciences Naturelles et aux Arts. 8vo. 419 pp. *Paris*, 1843

† Mémoire sur l'Application Electro-chimique des Oxides et des Métaux sur des Métaux. 8vo. 24 pp. (*Ann. de Chim.* 3me serie, tom. viii. 1843.) *Paris*, 1843

† Traité de Physique considerée dans ses Rapports avec la Chimie et les Sciences Naturelles. Tom. ii. 651 pp. 7 plates. *Paris*, 1844

† Traité de Physique dans ses Rapports avec la Chimie et les Sciences Naturelles. 2 vols. 8vo. *Paris*, 1844

† Elemente der Electro-Chemie in ihrer Anwendung auf die Naturwissenschaften und die Künste. Aus dem Französischen. 8vo. 488 pp. 3 plates. *Erfurth*, 1845

† De la Polarité produite par les Décharges Electriques, et de son emploi pour la détermination de la quantité d'Electricité ordinaire associée aux Parties constituantes des Corps dans les Combinaisons. 4to. 24 pp. (*Comptes Rendus*, 1846, 1e serie, xxii. No. 10, p. 381.) *Paris*, 1846

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† Considérations générales sur la Théorie Electro-chimique. 4to. 6 pp. (*Comptes Rendus*, 1849, 1e série, xxviii. No. 22, p. 658.) *Paris*, 1849

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**Benzenberg,** Johann Friedrich. *Born May* 5, 1777, *at Schöller, between Elberfeld and Düsseldorf; died June* 8, 1846, *at Bilk.*

† Ueber Bestimmung der geographischen Lage durch Sternschnuppen. 8vo. *Hamburg*, 1802

† Die Sternschnuppen sind Steine aus den Mondvulkanen, die ein Durchmesser von 1, bis 5 Fuss haben, und welche bei 8,000 Fuss Geschwindigkeit in 1 Secunde nicht wieder auf den Mond zurückkommen und die dann mit Millionen um die Erde herumlaufen. 8vo. 80 pp. *Bonn*, 1834

† Die Sternschnuppen. 8vo. 375 pp. *Hamburg*, 1839

† **Benzenberg** and **Brandes.** Versuche die Entfernung, Geschwindekeit der Bahnen der Sternschuppen zu bestimmen. 8vo. 88 pp. *Hamburg*, 1800

**Béraud,** Laurent. *Born March* 5, 1702, *at Lyon; died January* 26, 1777, *at Lyon.*

† Dissertation sur le rapport qui se trouve entre la cause des effets de l'Aimant et celle des Phénomènes de l'Electricité, qui a remporté le Prix de l'Académie (*Rare. Neither Æpinus nor Van Swinden could find a copy.*) 4to. 38 pp. *Bordeaux*, 1748

Mémoire sur cette question, Pourquoi les Corps Electriques par eux mêmes ne reçoivent ils pas l'Electricité par communication. 1749

Mémoire sur l'Electricité fulminante. (Bursting explosivity of Electrical Machine.) Lu 1750 (15 Avril), dans une Séance de la Soc. Royale de Lyon. *Lyon*, 1750

† Theoria Electricitatis. 4to. 48 pp. *Petersbourg*, 1755

La Physique des Corps Animés, 12mo. *Paris*, 1755

Eloge de Béraud, par Lefebvre. 12mo. *Lyon*, 1780

**Béraud.** (*Vide* Euler, Frisi, and Béraud.)

† **Berdoe,** Marmaduke. An Enquiry into the influence of Electric Fluid in the structure and formation of animated beings. 8vo. 183 pp. 4 plates. *Bath*, 1771

On the Electric Fluid. 8vo. 1773

† **Beretta,** G. Lettera all' Amorelli sul Tormalino del Monte di San Gottardo. 4to. 3 pp. (*Opuscoli Scelti*, viii. 404.) *Milano*, 1785

**Bergen,** Carl August von. *Born August* 11, 1704, *at Frankfurt on the Oder; died October* 7, 1759, *at Frankfurt on the Oder.*

De Perseverantia virtutis Electricæ in Corpore electricitatis derivativæ. 4to. (*Nova Acta Acad. Nat. Curios.* ii. 158.) *Norimbergæ*

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† **Berghaus,** R. Allgemeiner Erdmagnetischer Atlas. Consisting of 5 maps. Fol. *Gotha*, 1851

**Bergman** (or Bergmann), Torbern Olof. *Born March* 9, 1735, *at Katherinberg West Gothland; died July* 8, *at Bad Medevi.*

† Anmerkungen vom stillen Wetterleuchten. 8vo. *Stockholm*, 1760

† A Letter concerning Electricity. 4to. (*Phil. Trans.* 1760, p. 907.) *London*, 1760

† Bemerkung von der Elektricität des Isländischen Krystales. 8vo. *Stockholm*, 1762

**Bergman,** Torbern Oloff—*continued.*

Observations on Auroræ Boreales in Sweden (1759). 4to. (*Phil. Trans.* 1762, p. 479.) *London*, 1762

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Observations in Electricity; and on a Thunderstorm. 4to. (*Phil. Trans.* 1763, p. 97.) *London*, 1763

† Elektrische Versuche mit Seiden Bande von unterschiedlicher Farbe. 8vo. *Stockholm*, 1763

† Some Experiments in Electricity. 4to. (*Phil. Trans.* 1764, p. 84.) *London*, 1764

Von der Höhe des Nordscheins. 8vo. *Leipsic*, 1764

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† Elektrische Versuche, mit an einander geriebenenen Glas-Scheiben. 8vo. *Stockholm*, 1765

† Commentarius de indole Electrica Turmalini. 4to. *London*, 1766

† Zusatz zu der Abbandlung von der Höhe des Nordscheins. 8vo. 3 pp. (*K. Schwed. Akad.* xxviii. 230.) *Leipzig*, 1766

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† Zusatz zu Vorhergehenden, *i. e.* Wilcke, Bemerkungen bei einem den 30 May, 1769. . . . Donnerschlage. 8vo. 5 pp. (*K. Akad. Schwed. Abh.* xxxii. 128.) *Leipzig*, 1770

† Braune Turmalinen nach ihrem Grundstoffe untersucht von I. R. 8vo. 14 pp. (*Schwed. Akad.* xli. 199.) *Leipzig*, 1779

† Precipitations Versuche mit Platina, Nickel, Kobalt, und Magnesium. 8vo. 12 pp. (*K. Schwed. Akad. Neue Abhand.* i. 269.) *Leipzig*, 1780

† **Bergmann,** L. Die Telegraphie. 8vo. 80 pp. *Leipzig*, 1853

**Bergsma,** P. A. Dissertatio Historico-physica de phosphorescentia per irradiationem. 8vo. *Ultrajecti ad Rhenum*, 1854

**Bergstrasser,** J. A. B. 5 Sendungen über sein Problem. 8vo. *Braunschweig*, 1785-88

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Ueber Signal-Ordre und Zeitschreiberei in die Ferne oder über Synthematographie und Telegraphie. 8vo. (Not electrical.) *Frankfort*, 1795

**Bérigny,** Ad. Rapport sur les Observations Ozonomètriques faites avec le papier Schönbein, autour de la caserne de Saint Cloud (Seine et Oise), et au milieu de la cour à deux altitudes différentes, à sept heures et demie du soir pendant trente et un jours, (du 6 Octobre au 5 Novembre, 1855 (inclusivement). 2 Mémoire. 8vo. 24 pp. (*Extrait des Mémoires de Médecine, de Chirurgie, et de Pharmacie Militaires.*) *Paris*, 1856

Recherches et Observations pratiques sur le Papier Ozonométrique. 8vo. 15 pp. *Paris*, 1857

*Vide* also Deux-Ponts-Bérigny, E.A.

**Berkel,** A. Van. Reise nach Rio de Berbice (in der Sammlung, &c. aus dem Holland.) 8vo. (*Gymnotus, Observations in* 1680 to 1689.) *Memming*, 1789

† **Berkhout,** J. Dissertatio Physica Inauguralis, de fluxibus Thermo-electricis Acus magneticæ ope, observatis. 8vo. 71 pp. *Amstelodami*, 1843

**Berlin.** Gemeinnütz. Natur und Kunst Magazin. *Berlin*

**Berlin Academy.** Abhandlungen, physikalische, der Königlichen Akademie der Wissenschaften zu Berlin. 4to. *Berlin*

**Berlinghieri,** Vacca Leopold. *Born* 1732, *at Ponsacco, near Pisa; died October* 6, 1812, *at Montefoscoli.*

Elementi di Fisica del Corpo umano in stato di salute. 4to. (*Giornale di Med. Pratica di Brera*, ix. 171.) *Pisa*, 1783

† Method of communicating Magnetism to a Bar of Iron without a magnet. 8vo. 1 p. (*Phil. Mag.* xxxv. 157.) *London*, 1810

Elogio di . . Vacca Berlinghieri scritto dal Tantini. F. 8vo. (*Giornale di Med. Pratica di Brera*, ix. 171 *and* (*continuation*) 298.) *Padova*, 1816

**Bern.** Mittheilungen der Naturforschung Gesellschaft in Bern. *Bern*

**Bernard,** Claude. Sur l'influence du nerf grand sympathique sur la chaleur animale. 4to. (*Comptes Rendus*, 29 *Mai*, 1852.) *Paris*, 1852

† **Bernard,** C. A. Die Functionen des elektrischen Fluidums, vorzüglich in Hinsicht des menschlichen Körpers im gesunden und kranken Zustande. Inaugural Dissertation. 8vo. 70 pp. *Wien*, 1838

† **Bernardi,** A. Sulla declinazione dell' Ago. 8vo. 4 pp. (*Biblio. Ital.* lxiv. 255.) *Milano*, 1831

**Bernouilli,** Daniel. *Born January* 29, 1700, *at Gröningen; died March* 17, 1782, *at Basel.*

Mémoire sur la manière de construire les boussoles d'inclinaison pour faire, avec le plus de précision qu'il est possible, les observations d'inclinaison de l'aiguille aimantée, tant sur mer que sur terre, ce qui suppose des boussoles qui, étant mises dans un même lieu, donneront sensiblement la même inclinaison. 4to. (*Pièces de Prix de l'Académie de Paris*, v. *Mém.* 8.) *Paris*, 1743

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An Experiment on a Dog. (*Bonnefoy says, in Journal de Méd. Jan.* 1756, p. 56.) *Paris*, 1756

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On the Magnets of Dietrich (civis Basiliensi). Description of, &c. (*Nouvelle Bibliothèque Germanique*, tom. xvi. part i. p. 225.)

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**Bernouilli,** J. *Vide* Euler, &c.

**Bernouilli,** Johan, I. Nouvelle manière de rendre les Baromètres lumineux. (*Mém. de Paris*, 1700.) 1700

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Expériences sur la lumière que rendent les Corps frottés dans l'obscurité. 4to. (*Mém. de Paris*, 1707, *Hist.* p. 1.) *Paris*, 1707

Dissertatio de Mercurio lucente. *Bâle*, 1719

**Bernouilli,** Johan (3rd). *Born November* 4, 1744, *at Basle, Switzerland; died July* 13, 1807, *at Köpnick bei Berlin.*

Déclinaison de l'Aiguille aimantée observée à Berlin. 4to. (*Mém. de Berlin, An.* 1769, p. 490.) *Berlin*, 1769

**Bernoulli,** Cp. Ueber das Leuchten des Meers mit besonderer Hinsicht auf das Leuchten thierischer Körper. 8vo. *Göttingen*, 1803

† **Béron,** P. Atlas du Magnétisme Terrestre représentant l'aimantation de la terre par le soleil et l'aimantation du fer par la terre, avec un texte contenant l'explication de touts les faits magnétiques suivant les lois physiques. Appendice. Variations diurnes, annuelles, et séculaires des éléments magnétiques, &c. fol. 98 pp. 3 plates. *Paris*, 1860

*Note.—The paging begins at p.* 311. *The three very large folding plates are not sewed in the volume; they are numbered* 8, 9, *and* 10. *This is probably a part of his work, Grand Atlas Météorologique* (12 *plates*).

Réforme de la Physique par la découverte de la Stocchiométrie; des équivalents Electriques. Par Pierre Béron. 1er livraison. Janvier et Février, 1860. 8vo. 136 pp. (*Réforme fondamentale des Sciences.*) *Paris*, 1860

**Béron**—*continued.*

Electrostatique, contenant l'explication des faits Electriques et Electrochimiques de toutes les sciences, suivi d'un Appendice sur la cause physique des maladies, &c. *Paris*, 1861

† Météorologie simplifiée et Télégraphie sans fils et sans cables. 8vo. 944 pp. *Paris*, 1863

† **Bertelli,** Barnabita e **Palagi.** Sulla distribuzione delle correnti Elettriche nei conduttori. Esperienze. 8vo. 25 pp. 3 plates. *Bologna*, 1855

† Sopra Pietro Peregrino di Maricourt e la sua epistola de Magnete. Memoria prima. 4to. 32 pp. (*Estratto dal Bullettino di Bibliografia di Storia delle Scienze Matemat. e Fisiche*, tom. i. 1868.) *Roma*, 1868

† **Berthollet,** Claude Louis. *Born November* 9, 1748, *at Tulloire, Annecy, Savoy; died December* 6, 1822, *at Arcueil, Paris.*

Essai de Statique Chimique. *Paris*, 1803

† **Bertholon** de Saint Lazare. *Born* 1742, *at Lyon; died April* 21, 1800, *at Lyon.*

Rimedio per mal di denti. 12mo. 2 pp. (*Scelta d'Opuscoli*, xxl. 118.) *Milano*, 1776

Mémoire sur un nouveau moyen de se préserver contre la Foudre. 4to. *Montpellier*, 1777

Sur la cause Phosphorico-électrique des Aurores Boréales. 4to. (*Journal de Phys.* 1778.) *Paris*, 1778

Mémoire sur cette question: Quelles sont les Maladies qui procèdent de la plus ou moins grande quantité du Fluide Electrique? 8vo. *Lyon*, 1779

† De l'Electricité du corps humain dans l'état de santé et de maladie. Ouvrage couronné par l'Acad. de Lyon, dans lequel on traite de l'Electricité de l'Atmosphère, de son influence et de ses effets sur l'économie animale, &c. 8vo. 541 pp. *Paris*, 1780

Neue Elektrisirmaschine von Bertholon. (The Rubber in Motion.) 8vo, (*Lichtenbergs Mag.* i. 92.) *Gotha*, 1781

† Preisschrift über die Elektricität nach Medecinischen Gesichtspuncten betrachtet, nebst einem Anhange über die Gewitter und Gewitter Ableiter. 8vo. *Bern*, 1781

Sur l'Electricité, aérienne et artificielle. 4to. (*Journal de Phys.* 1782.) *Paris*, 1782

Lettre à M. de la Tourette, sur les Paratonnerres ascendants et descendants de la Ville de Lyon. (*Samml. zu Phys.* xix. *Mai* 1782, p. 382.) 1782

† De l'Electricité des Végétaux. Ouvrage dans lequel on traite de l'Electricité de l'Atmosphère sur les plantes, de ses effets sur l'économie des végétaux, de leurs vertus médico et nutrivo-électriques et principalement des moyens de pratique de l'appliquer utilement à l'agriculture, avec l'invention d'un électro-végétomètre. 8vo. 468 pp. *Lyon*, 1783

† Nouvelles Preuves de l'efficacité des Paratonnerres. 4to. 28 pp. 3 plates. *Montpellier*, 1783

† Estratto d'una Mem. sui Vegetabili che comunicano la scossa: e transunto d'una Mem. sulle Sabbie, &c., che trasmettono la scossa. 4to. (*Scelta d'Opuscoli, Nuova Ed.* iii. 80 and 389. *Originally printed in the* 12mo *edition in* 1777.) *Milano*, 1784

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† De l'Electricité du Corps humain. Ouvrage couronné par l'Acad. de Lyon, dans lequel on traite de l'Electricité de l'Atmosphère, de son influence et de ses effets sur l'économie animale, des vertus médicales de l'Electricité, des découvertes modernes, et des différentes méthodes d'électrisation; avec un grand nombre de Figures en taille-douce. 2nd edition, 2 vols. 8vo. vol. i. 522 pp. vol. ii. 518 pp. 6 plates. *Paris*, 1786

† De l'Electricité des Météores. Ouvrage dans lequel on traite de l'Electricité naturelle en général et des Météores en particulier. 2 vols. 8vo. *Paris*, 1787

**Bertholon** de Saint Lazare—*continued.*

Anwendung und Wirksamkeit der Elektricität zur Erhaltung und Wiederherstellung der Gesundheit des menschlichen Körpers. 2 Theile. 8vo. *Leipzig*, 1788

Nouvelles expériences sur les effets de l'Electricité appliquée aux Végétaux. 4to. (*Journ. de Phys.* xxxv.) *Paris*, 1789

Die Elektricität der Lufterscheinungen. 2 vols. 8vo. *Leignitz*, 1792

* **Berthoud.** Eclaircissements sur l'invention, la théorie, la construction, etc. des machines pour la détermination des longitudes en mer. *Paris*, 1773

* Histoire de la mesure du temps par les horloges. *Paris*, 1802

**Bertier (Berthier)**, J. E. Lettres sur l'Electricité. La physique des Comètes. *Paris*, 1760

† **Bertin,** P. A. *Born February* 13, 1818, *at Besançon, dep. Doubs.*

Thèses . . . sur les propriétés rotatives que prennent les corps transparents sous l'influence du Magnétisme, et Thèse . . . sur les phénomènes chimiques qui accompagnent le passage de l'Electricité à travers les corps . . . ou étincelles . . . ou courants. Presentées à la Faculté des Sciences de Paris. 4to. 38 pp. *Paris*, 1847

† Mémoire sur la rotation Electromagnetique des Liquides. 8vo. 26 pp. (*Extr. des Ann. de Chim.*, 3rd serie, vol. lv.) *Paris*

† Sur la Polarisation circulaire magnétique. 8vo. (*Extr. des Ann. de Chim.* 3rd series, vol. xxiii.) *Paris*, 1848

Discours sur les théories physiques en général et sur celles de l'Electricité en particulier. 8vo. *Strasbourg*, 1859

Sur les phénomènes de Polarisation magnétique dans les verres trempés et dans les parallélépipèdes de Fresnel. 4to. (*Compt. Rendus*, 1849, xxviii.) *Paris*, 1849

**Bertin,** E. Quelques réflexions sur les poussières atmosphèriques, à propos d'un travail du Dr. de Vivenot sur un obscurcissement particulier du ciel en Sicile. 8vo. 20 pp. *Montpellier*, 1867

**Bertoncelli,** B. Di un nuovo Barometro e di un nuovo Barometrografo. Memoria . . . letta 23 Feb. 1854, all' Accademia. 8vo. (*Verona Accad. d'Agricul.* vol. xxx. p. 41, *on Hydrometrical Principles.*) *Verona*, 1854

**Bertrand,** Joseph L. François. *Born March* 11, 1822, *at Paris.*

Sur quelques points de la théorie de l'Electricité. (*Liouville. Journ. de Mathém.* 1839, iv.) 1839

† Programme d'une Thèse sur la distribution de l'Electricité à la surface des corps. 4to. 7 pp. *Paris*, 1839

† **Berrutti,** S. Elogio del . . . Vassalli Eandi. 8vo. 1839

Esperienze sulla esistenza delle correnti Elettrico-fisiologiche negli animali a sangue caldo. Eseguite nel gabinetto di fisica della Reale Università dal Prof. S. Berrutti, in compagnia dei . . Botto, Girola, Bellingeri, Demarchi, e Malinverni. 8vo. 32 pp. (*Ital. Soc. Mem.* xxii. 30.) *Torino*, 1840

**Berzelius,** Jöns Jacob, Freiherr von. *Born August* 29, 1779, *at Vafversunda Sorgärd im Stifte Linkoping, am Fusse des Omberg, zwischen dem Vettern und Takern See; died August* 7, 1848, *at Stockholm.*

(*Poggendorff says that most of his works in the Academy, the Afh. Fisik, &c. are translated in the Ann. Chim. Phys. in der Zeitschrift von Gehlen, Schweigger, Gilbert, and Poggendorff, in which are also various smaller original treatises of his. He published more than* 200 *treatises and smaller articles.*)

† Afhandling om Galvanismen. sm. 8vo. 145 pp. (*Rare.*) *Stockholm*, 1802

De Electricitatis Galvanicæ Apparatu Cel. Volta excitatæ in corpora organica, effectu. *Upsala*, 1802

**Berzelius**—*continued.*

Försök med elektrisa Stapelns verkan på Salter och på några af deras baser (mit Hisinger). (*Afh. i Fisik, &c.* tom. i.) **1806**

Elektroskopica försök med. fargade paper. (*Afh. i Fisik*, tom. i.) **1806**

Elektriska Stapelns Theori. *Afh. i Fisik*, tom. ii.) **1807**

Om Magnetnälens afvikelser. (*Afh. i Fisik*, tom. ii.) **1807**

† * Proposed Improvement of the Hygrometer. Translated from Berzelius's *Phil. Journal*, 1808. 8vo. 4 pp. (*Phil. Mag.* xxxiii. 39.) *London*, **1809**

Försök att. genom användandet af den Elektro-kemiska propotionerna, grundlaga ett. rent vetenskapligt Systems för Mineralogien. *Stockholm*, **1814**

† An attempt to establish a pure Scientific System of Mineralogy by the application of the Electro-chemical theory and the chemical proportions. Translated from the Swedish original by John Black. 8vo. 144 pp. (*Brugnatelli's copy.*) *London*, **1814**

Versuch durch Anwendung der elektrisch-chemischen Theorie, &c. ein System der Mineralogie zu begrunden. Aus dem Schwedischen von Gahlen. 8vo. *Nurnberg*, **1815**

† Essai sur la Théorie des proportions chimiques et sur l'influence chimique de l'électricité. Traduit du Suédois. 8vo. 190 pp. *Paris*, **1819**

Versuch über die Theorie der chemischen Proportionen und über die chemischen Wirkungen der Elektricität; nebst Tabellen. Nach dem schwedischen und franz. Original ausgearbeitet von R. A. Blode. 8vo. *Dresden*, **1820**

Om det Magnetiska tillstandet hos de kroppar, som urladda elektriska stapeln. 8vo. (*Vetensk. Acad. Handl.* 1820.) *Stockholm*, **1820**

† Jahrsbericht über die Fortschritte der physichen Wissenschaften. Aus dem Schwedischen von F. Whöler. 8vo. **1822 to 1851**

Untersokn af. en Meteorsten. 8vo. (*Vetensk Acad. Handl.* 1828.) *Stockholm*, **1828**

† Power of Metallic Rods or Wires to decompose water after their connection with the Galvanic pile is broken. 8vo. 2 pp. (*Phil. Mag.* viii. 229.) *London*, **1830**

Om Meteorstenar. 8vo. (*Vetensk Acad. Handl.* 1834.) *Stockholm*, **1834**

† Théorie des proportions chimiques et Table synoptique des poids atomiques des corps simples, &c. Revue, corrigée, et augmentée. 2d edition. 8vo. 476 pp. *Paris*, **1835**

Rapport annuel sur le progrès de la Chimie. Traduit par Plantamour. 8 vols. 8vo. *Paris*, **1841-8**

† Vollständiges Sach-und Namen-Register zum Jahr's-Bericht über die Fortschritte der physischen Wissenschaften, der Chemie und Mineralogie. 1-25 Jahrg. 8vo. 180 pp. *Tubingen*, **1847**

Neues chemisches Mineralsystem nebst einer Zusammenstellung seiner älteren hierauf bezüglichen Arbeiten. 8vo. *Nurnberg*, **1847**

Lehrbuch der Chemie. 5 vols. royal 8vo. *Leipzig*, **1848**

† Gedächtnissrede auf Berzelius; auswärtiges Mitglied der Academie, von Herr Heinr. Rose, gehalten . . . Akad. der Wissenschaften am 3 Juli, 1851. 4to. (*Abhandlung der Berlin Akad.* 1851.) *Berlin*, **1851**

**Berzelius und Hissinger.** Afhandlingar i Fisik, Kemi och Mineralogie utgifne af W. Hissinger och J. Berzelius. 6 vols. *Stockholm*, **1806-1818**

*Vide* also Hissinger and Berzelius.

† **Beseke,** Johann Melchior Gottlieb. *Born September* 26, 1746, *at Burg bei Magdeburg; died October* 19, 1802, *at Mitau.*

Ueber Elementärfeuer und Pflogiston als Uranfänge der Körperwelt, insbesondere über elektrische Materie. In einem Schreiben an Herr Achard. 8vo. 52 pp. *Leipzig*, **1786**

† **Besio.** G. Nuova modificazione alla pila di Volta. Memoria. 8vo. 19 pp. 1 plate. *Lugano*, **1839**

† **Bétancourt,** A. de. Nouvelle Télégraphie présentée par MM. Breguet et Bétancourt. (*Mém. de l'Instit.* tom. iii. *Bull. Soc. Philomath. A.* vi.)

In Gauss and Weber's Resultate, &c. for 1837, p. 14, is a footnote concerning a Notice communicated to Gauss by Humboldt, relative to a Wire (Drahtkelle) extended from Aranjuez to Madrid for telegraphic purposes, by Betancourt. Date, apud Moigno, p. 62, was 1787. **1787**

*Vide* also Breguet and Bétancourt.

**Beuchot.** Bibliographie de la France. 8vo.

* † **Bevan,** B. On register Rain Gauges. (*Phil. Mag. or Annals*, ii. 74.) *London*, **1827**

* † Remarks on Mr. J. Taylor's Rain Gauge. (*Phil. Mag. or Annals*, iii. 29.) *London*, **1828**

† **Bevis,** John. *Born October* 31, 1695, *at Old Sarum, Wilts; died November* 6, 1771, *in London.*

An Account of a Luminous Appearance in the sky, seen in London on March 13, 1734-5. (*Phil. Trans.* xli. 347, printed 1744.) *London*, **1739-40-41**

On Coating Glass Plates with Tinfoil, &c. (Inventor of.) (*Vide* Watson, *Phil. Trans.* 1747.) **1747**

On Earthquakes. 8vo. **1760**

† **Bew,** Charles. Electrical Cure; or, Opinions on the Causes and Effects of Ticdouloureux. 8vo. 94 pp. *London*, **1824**

† **Beyer.** On Lightning-conductors, &c. 8vo. 2 editions. *Paris*, **1806-9**

**Bezaud (Bezault),** L. Les Animaux et les Métaux deviennent-ils électriques par communication? (From *Poggendorff*, i. 146.) *Bordeaux*, **1749**

† **Bezold,** W. von. Zur Theorie des Condensators. Inaugural Dissertation. 8vo. 60 pp. *Göttingen*, **1860**

† Untersuchung über die elektrische Erregung der Nerven und Muskeln. 8vo. 330 pp. 2 plates. *Leipzig*, **1861**

Ueber die physikale Bedeutung der Potential-Function in der Elektricitätslehre. 8vo. *München*, **1861**

† **Bianchi,** G. Lettere . . . intorno l'Aurora Boreale veduta in Rimini addì 16 Dec. 1737. 12mo. 7 pp. (*Callogera, Raccolta*, xvii. 99.) *Venezia*, **1738**

† Alcune Spiegazioni dell' Aurora o lume boreale. 12mo. 9 pp. (*Callogera, Raccolta*, xvii. 109.) *Venezia*, **1738**

† Osservazioni intorno le Aurore Boreali vedutesi le sere de' 10 e 29 Mar. 1739. 12mo. 17 pp. 1 plate. (*Callogera, Raccolta*, xxi. 187.) *Venezia*, **1740**

Sopra i piccoli moti apparenti osservati nei muri e nelle macchine della Reale Specola di Modena. Ricevuta 14 Dec. 1836. 4to. 55 pp. (*Ital. Soc. Mem.* xxi. 246.) *Modena*, **1837**

**Bianchi,** Giovanni Batista. Lettre à Pivati. 4to. *Torino*, **1748**

**Bianchi,** Iso. Elogio storico del Fromond. 4to. 64 pp. *Cremona*, **1781**

† (*Note.—At p.* 42 *is Beccaria's letter to Fromond, dated Torino,* 27 *Gennajo,* 1754, *describing his experiment intended to prove that electric motions do not occur* in vacuo.)

† **Bianchini,** Dominicus. De Igne Electrico in naturam agente. 8vo. 15 pp. *Verona*, **1787**

† **Bianchini,** Giovanni Fortunato. *Born Dec.* 27, 1719, *at Chieti, Neapel; died Sept.* 2, 1779, *at Padua.*

Saggio di esperienze intorno la Medicina Elettrica atte in Venezia da alcuni amatori di Fisica. Al Sig. Ab. Nollet. 4to. 116 pp. (*Vide Anonym. Recueil* xx. *for French translation. An address by the "Amatori" to Nollet is signed by the initials N.N.N.N.*) *Venezia*, **1749**

† Osservazioni intorno all' uso dell Elettricitá celeste, e sopra l'origine del Fiume Timavo. Riportate in due Lettere. 4to. 92 pp. 1 plate. *Venezia*, **1754**

**Bianchini**—*continued.*

1. Lettera intorno un nuovo Fenomeno Elettrico (1753), all' Accad. Reale di Parigi, 39 pp. 1 plate.
2. Osservazioni intorno al Fiume Timavo scritte in una lettera al . . Guido Conte Cobenzi (1754), 41 pp.

† 3. Another letter follows, entitled "Epistola Reverendi Patris Petri Imperati Bononiam missa (preceded by two pages by Bianchini, and dated Castello Pucino, Sept. 1752.

(*The first letter is dated Udine*, 1753. *Vassalli, p.* 10, *says*, "*printed in Mem. dell' Accad.* 1764," *and* "*La Lettera del Dottore sudetto fu scritta nel* 1753," *and contains Bianchini's account of the state of the conductors, &c., at the Castello Pucino in* 1752. *The third letter of* 1602 *contains an account* (*Latin*) *of the Ignis Fatuus called St. Helen's fire.*)

Lettera intorno un nuovo Fenomeno Elettrico. 4to. (*Mem. Paris*, 1764.) *Paris*, **1764**

On the Vertical Rod on the Chateau di Duino in the Friuli. 4to. (*Mémoires de l'Acad. pour* 1764, edit. orig. p. 44.) *Paris*, **1764**

† **Bianchini,** Giuseppe. Parere sopra la cagione della morte della Signora Contessa Cornelia Zangari ne' Bandi Cesenate, esposto in una lettera al Sig. Co. Ottolino Ottolini. 8vo. 70 pp. Two editions. *Verona*, **1731-33**

† An Extract by Rolli, P., of an Italian Treatise, written by Bianchini, J., upon the Death of the Countess Cornelia Zangari ne' Bandi, of Cesena. To which are subjoined Accounts of the Death of Hitchell, J., who was burned to death by Lightning, and of Grace Pitt at Ipswich, whose body was consumed to a coal. 4to. 19 pp. (*Phil. Trans.* xliii. 447.) *London*, **1744-45**

† Parere sopra la cagione della Morte della Contessa Cornelia Zangari ne' Bandi Cesenate . . . esposto in una lettera al Conte Ottolino Ottolini. 8vo. 147 pp. 4th edition. *Roma*, **1758**

(*This edition contains Cromwell Mortimer's Dissertation on Animal Heat* (*in French and Italian*) *from the Phil. Trans. Read 4th July*, 1745.)

**Bianconi,** Giovanni Lodovico. *Born Sept.* 30, 1717, *at Bologna; died Jan.* 1. 1781, *at Perugia.*

† Due Lettere di Fisica al Maffei. 4to. 72 pp. 1 plate, and 110 pp.

1. Delle caraffe di vetro che scoppiano al cadervi dentro di alcune picciole materie e di altri vetri curiosi. Lettera prima.
2. Della Velocità del Suono. Altra lettera. *Venezia*, **1746**

† Lettre sur l'Electricité, écrite par M. Bianconi à M. le Comte Algarotti. Dated Augsbourg, 3 Nov. 1747. 8vo. 40 pp. *Amsterdam*, **1748**

(*The printer or editor says that this forms a part of the 2nd vol. of the Journal des Savans d'Italie, and that the remarks are by the Journalists.*)

† Sendschreiben über die Electricität an Hn. Grafen Algarotti. Aus dem Französichen übersetzt. 8vo. 44 pp. *Basle*, **1750**

† Portrait of. C. Bianconi, del.; Benaglia, sculp.

**Bianconi,** G. Cenni intorno all' origine ed ai progressi dell' arte Galvanoplastica. 8vo. *Bologna*, **1841**

(*Nuovi Annali delle Scienze Naturali, Luglio, Bologna*, 1841, *mentions the goldsmith of Pavia, who knew the process of gilding very easily and cheaply by means of the pile in* 1818.)

**Bianconi,** G. B. Intorno all' origine ed ai progressi dell' arte Galvanoplastica. (*Nuovi Annali delle Scienze Naturali*, tom. viii. p. 72.)

**Bibliografia Italiana.** (From *Athenæum*, July 15, 1871, p. 82.)

**Bibliographie de la France,** ou Journal Général de l'Imprimerie. Première Année, Nov. 1811, à Dec. 1812. A volume every year since. Pillet, Rue des Grands Augustins, No. 5, Editor.

**Bibliotheca Americana.** (*Eng. Cat.* 1864. p. 65.) *New York*, **1850-61**

**Bibliothèque Médicale,** par une Société de Médecins.

(*Sue. Hist.* iv. 206, *says that the authors "ont, à commencer au No. X., p.* 94, *et suiv. produit une exposition abrégée des connaissances acquises jusqu'à ce jour sur le galvanisme, extraite des principaux ouvrages qui ont paru sur cette matière.*")

**Bibliothèque, &c.** (de Genève), consists of the following titles :

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| 1. | Bibliothèque Britannique . . . . . | 1796 | à | 1815 | | |
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| 4. | „ „ 4e série . . . . | 1846 | „ | 1856 | et seq. | |
| 5. | Archives de l'Electricité (Supplément) . . . | 1841 | „ | 1845 | | |
| 6. | Archives des Sciences Physiques . . . . | 1846 | „ | 1857 | et seq. | |

† **Bibliothèque Italienne.** Ou Tableau des Progrès des Sciences et des Arts en Italie, par Giulio Gioberti, Vassalli Eandi, et Rossi. 5 vols. 8vo. (*Brugnatelli's copy.*) *Turin,* 1803-4

**Bibliothèque Médico-Physique du Nord.** Vicat, editor. 8vo. Divided into three independent parts. *Lausanne,* 1783

**Biblioteca Germanica.** Ridolfi, Bura, Santini, Configliachi, editori. 1822-23

**Biblioteca Italiana.** Ossia Giornale di Letteratura, Scienze, ed Arti, compilato da una Società di Letterati. 100 vols. 8vo. *Milano,* 1816-40

(*Note.—The compilers were Monti, Breislak, Giordani, Acerbi Direttore, Gironi, Carlini, Fumagalli, G. Brugnatelli, Configliachi, Ferrario, Cotena, and Fantonelli.*)

Notice of "Navigazione col mezzo del Galvanismo," taken from the *Glasgow Mechanics' Magazine,* No. 23, October. 8vo. (*Biblioteca Italiana,* xli. 447.) *Milano,* 1826

† Sul Monumento a Beccaria, &c. 8vo. 2 pp. (*Biblioteca Italiana* lxix. 397.) *Milano,* 1833

† Sull' Herschell ed altri. Stelle cadenti. 8vo. 4 pp. (*Bibl. Ital.* lxxxii. 323.) *Milano,* 1836

† Sul Dal Negro. 8vo. 2 pp. (*Bibl. Ital.* lxxxv. 121.) *Milano,* 1837

† Dei Metallici ricoprimenti. 8vo. 2 pp. (*Bibl. Ital.* lxxxix. 126.) *Milano,* 1838

† Reviews of Books and Papers relating to Electricity, &c.:
Shorter Notices of Writings. „
Extracts from and abridged Accounts of Books.
Reprints of Articles in other Journals. „
Accounts of Experiments and Observations. „
Accounts of Electrical Atmospheric Phenomena, as Auroræ, &c.
Notices of various other matters referable to Electrical Science.
Reflections, Remarks, Notes, &c. „
Necrologies of Electricians.
8vo. 23 brochures. (*Bibl. Ital.* t. xxxiv. to xcix. inc.) *Milano,* 1824-40

† De' trasporti Metallici operati dall' Elettrico. 8vo. 3 pp. (*Bibl. Ital.* xcviii. 269.) *Milano,* 1840

**Biblioteca Oltramontana,** ad uso d'Italia ; colla Notizia dei Libri stampati in Piemonte. *Torino,* 1786 ?

**Bichat,** Xav. Physiologische Untersuchung über Leben und Tod. Im Ausz. und mit Anmerkungen von Herold, aus dem Dänisch von Pfaff. 8vo. *Copenhagen,* 1802-3

† Recherches Physiologiques sur la Vie et la Mort. 3rd edit. 8vo. 347 pp.
(*Guitard says* 1801, "*the 1st edition is* 1800." *Vide Cerise's 2nd edition of* 1856.) *Paris,* 1805

Anatomie générale appliquée à la Physiologie et à la Médecine. Nouvelle édition, précédée des Recherches Physiologiques sur la Vie et la Mort. 4 vols. 8vo. *Paris,* 1812 or 1818

**Bichat**—*continued.*

Anatomie générale, précédée des Recherches Physiologiques sur la Vie et la Mort, avec des Notes de Maingault. 2 vols. 8vo. Portrait. *Paris*, 1818

Anatomie générale. Nouvelle édition, avec des Additions par Béclard. 4 vols. 8vo. *Paris*, 1821

Recherches Physiologiques sur la Vie et la Mort. 4e édition, augmentée, par F. Magendie. 8vo. *Paris*, 1822

Recherches sur la Vie et la Mort, avec des Notes par Magendie. New edition. 8vo. *Paris*, 1822

† Recherches Physiologiques sur la Vie et la Mort. Nouvelle édition, précédée d'une Notice sur la Vie et les Travaux de Bichat, et suivie de Notes, par Cérise. 12mo. 382 pp. 1 vignette. *Paris*, 1856

† **Bidone,** Giorgio. *Born January* 19, 1781, *at Casal-Noceto, province Tortone, Piémont; died August* 25, 1839, *at Turin.* Description d'une nouvelle Boussole propre à observer les Mouvements de Rotation et de Translation de l'Aiguille aimantée, et Expériences . . . . Lecture le 28 Nov. 1807. 4to. 38 pp. 3 plates. (*Mém. de Turin*, 1809-10.) *Torino*, 1811

**Bienvenu.** On Mosaic Gold used in the Rubber of the Electric Machine about 1783 or 1784. 8vo. (*Lichtenberg's Mag.* ii. p. 211.) *Gotha*, 1783 or 1784

**Biester,** J. P. De acu Magnet. &c. 4to. (From *Friedlander's Cat.* No. 163, 1867, p. 6.) *London*, 1725

† **Bigot de Morogues,** Pierre Marie Sébastien Baron de. *Born April* 5, 1776, *at Orléans; died June* 15, 1840, *at Orléans.*

Anweisung zur Construction und Veranschlagung der Blitz-Ableiter . . nebst einem Nachtrage: über Taveniers Gewitters ableitende Säule . . 8vo. 102 pp. *Glogau*, 1834

† Mémoire Historique et Physique sur les Chutes des Pierres tombées sur la surface de la Terre à diverses époques. 8vo. 360 pp. *Orléans*, 1812

† Chronological Catalogue of Stones and other large Masses, which are presumed to have fallen on the Earth. 8vo. 4 pp. From the *Journal des Mines*, xxxi. 430. (*Phil. Mag.* xliii. 448.) *London*, 1814

(*This list begins in* 654 *before Christ, and ends in A.D.* 1812, *excepting one shower at Gideon in* 1451 *before Christ.*)

**Bikker.** Dissertatio de Natura Humana. (From *Van Troostwyk und Krayenhoff*, p. 162.) *Lugd. Bat.* 1757

**Bilharz,** Th. Das Electrische Organ des Zitterwelses, anatomisch beschrieben. Fol. *Leipzig*, 1857

**Billaudel.** Prem. Mém. on the Meteor of 17th February, 1823. (*Bordeaux Acad.*) 1823

Deux Mémoires sur la Météorologie and other matters. (*Bordeaux Acad.*)

On some Meteors observed at Bordeaux, and referred to Auroræ. (*Bordeaux Acad.* Séance 1829, p. 43.) *Vide* also Lacour.

† **Billet,** J. Des Condensations Electriques; with Memoir on Light. 8vo. 7 pp. 1 plate. (*Ext. Acad. de Dijon.*) *Dijon*, 1851

De quelques Appareils pour l'Electricité dynamique. 8vo. *Paris*, 1854

**Bina,** Andrea. *Born Jan.* 1, 1724, *at Mailand.*

† Electricorum effectuum explicatio quam ex principiis Neutoniensis deduxit, novisque experimentis ornavit. 8vo. 157 pp. *Batavii*, 1751

Elektrische Versuche, Gewitter und Regen betreffend. Briefe an Kostner. 8vo. (*Hamburg Mag.* xii.) *Hamburg*, 1753

Lettera intorno all' Elettrizzazione dell' aria in occasione di tempo cattivo, &c. *Perugia*, 1753

**Bina**—*continued.*

† De Physicis experimentibus Chi. Wolfii, trans. 8vo. 2 vols. in 4 parts. 36 plates. *Venetiis*, 1753-56

(*The 2nd part of vol.* ii. (1756) *contains Bina*, "*De Electricis effectibus, &c., ab interprete addita*," 141 *pp.—viz., from p.* 215 *to* 356, 1 *plate. It is a 2nd edition of B.* 10, *but not so called in the title.*)

*Vide* also Wolf and Bina.

**Bineteau,** M. A. Note sur l'Ozone atmosphérique. 8vo. 8 pp. *Lyon*, 1855

† **Biot,** Jean Baptiste. *Born April* 21, 1774, *at Paris; died Sept.* 8, 1862.

Some Articles on Electricity in the Bulletin de la Société Philomathique. 1801 to 1816

Rapport sur les Expériences de Volta. 4to. (*Mém. de l'Inst.* vol. v. 1802.) *Paris*, 1802

(*The commission appointed in consequence of the First Consul's letter consisted of Laplace, Hallé, Coulomb, Hauy, and Biot. This commission was appointed on the . . .? The above report was made "le Messidor suivant," 30th June. The medal given to Volta is dated* 11 *Frimaire, an X. 2nd December*, 1801.)

† Sur le Mouvement du Fluide galvanique. 4to. 11 pp. (*Soc. Philomath.* an 9, No. 54, p. 45, par extrait.) *Paris*, 1802

Observation sur les Pierres météoriques. 4to. (*Soc. Philomath.* an 11, p. 129.) *Paris*, 1803

Recherches sur cette question: Quelle est l'influence de l'oxidation sur les effets de la Colonne électrique de Volta. 4to. (*Soc. Philomath.* an 11, p. 120.) *Paris*, 1803

† Relation d'un Voyage fait dans le Département de l'Orne pour constater la vérité d'un Météore observé à l'Aigle le 26 Floreal, an 11. 4to. 47 pp. 1 plate (*i.e.*, carte des lieux.) (*Lu à l'Institut. le* 29 *Messidor, an* 11.) 1803

† Notice sur l'état actuel des Connaissances relatives au Galvanisme. 8vo. 3 pp. (*Lu à la Séance Publique de l'Instit. National le* 1 *Messidor, an* 11.) *Paris*, 1803

† Account of a Fire-ball which fell in the neighbourhood of Laigle: in a Letter to the French Minister of the Interior. By C. Biot, Member of the National Institute. Dated July 20, 1803. 8vo. 5 pp. (*Phil. Mag.* xvi. 224.) *London*, 1803

† On the Formation of Water by compression; with Reflections on the Nature of the Electric Spark. Read before the National Institute. 8vo. 3 pp. (*Phil. Mag.* xxi. 362.) *London*, 1805

† Traité de Physique. 8vo. *Paris*, 1816

Terrestrial Magnetism, by T. S. Evans. 8vo. *London*, 1817

Précis élémentaire de Physique expérimentale. 2 vols. 2nd edition. German translation. *Vide* Fechner. *Paris*, 1818 and 1824

Translation of Fischer; Physique mécanique, avec des Notes et un "Appendice sur les Anneaux colorés . . . le Magnétisme," &c. 8vo. *Paris*, 1830

Mémoire sur la vraie Constitution de l'Atmosphère terrestre, déduite de l'expérience, &c. 1841

† Mélanges scientifiques et littéraires. 3 vols. 8vo. *Paris*, 1858

Cenno Biografico dell' illustre G. B. Biot, redatto dal Professore P. Volpicelli, 4to. 4 pp. (*Atti dell' Acad. de' Nuovi Lincei Ann.* xv. Sess. iv. del 2 Marzo, 1862.) *Roma*, 1862

*Vide* also Gay-Lussac and Biot.

„ Humboldt and Biot, and Anon. Elect. 1821.

† **Biot and Becquerel.** Sur la Nature de la Radiation émanée de l'Etincelle électrique qui excite la phosphorescence à distance. 4to. 5 pp. (*Comptes Rendus*, 1839, 1 sem. viii. No. 7, p. 223.) *Paris*, 1839

*Vide* also Becquerel Biot, &c.

**Biot et Cuvier.**

Sur quelques Propriétés de l'Appareil galvanique. 4to. (*Soc. Philomath.* an 9, p. 40. *Sue, Hist.* ii. 161, says: "Voyez aussi les *Ann. de Chim.* xxxix. 247. Elles contiennent une édition tout à fait différente de cet article.") *Paris*, 1801

**Biot,** Edouard Constant. *Born July* 2, 1803, *at Paris; died March* 12, 1850, *at Paris.*

† Catalogue général des Etoiles filantes et des autres Météores observés en Chine pendant vingt-quatre siècles. Depuis le viiᵉ siècle avant J.C., jusqu'au milieu du xvii. de notre ère. Présenté à l'Acad. les 31 Mai et 26 Juillet, 1841. 4to. 224 pp. 1 plate (ou tableau circulaire.) (*Acad. des Sciences, Savants étrangers*, tom. x.) *Paris*, 1841 ?

† Note supplémentaire au Catalogue des Etoiles filantes et des autres Météores observés en Chine. 4to. 8 pp. *Paris*, 1848

**Birch.** Observations on Medical Electricity. 8vo. 2 editions. 1779-80

† Letter to Adams on Medical Electricity. 8vo. *Vide* also Adams. 1792

† **Birch,** J. Della Forza dell' Elettricità nella cura della soppressione . . . 4to. *Napoli*, 1778

(*Forms part of Vivenzio's translation of Cavallo, &c.*)

† Considerations on the efficacy of Electricity in removing Obstructions with ease. 8vo. 60 pp. (*Volta's copy.*) *London*, 1779

† Essay on the Medical Application of Electricity. 8vo. 57 pp. *London*, 1803 (*Formerly published in Adams's Electricity, now revised and reprinted by itself.*)

**Birch,** Thos. On the luminousness of Electricity. 4to. (*Phil. Trans.* 1754.) *London*, 1754

† **Bird,** G. (Captain). Fall of a Meteoric Stone, 18th February, 1815, near the village of Dooralla (in the territory belonging to the Pattialah Rajah,) India. 8vo. 2 pp. (*Phil. Mag.* lvi. 156.) *London*, 1820

**Bird,** Golding. *Born* 1815, *in Norfolk.*

† Lectures on Electricity and Galvanism, in their physiological and therapeutical relations, delivered at the Royal College of Physicians. Revised and extended. 12mo. 212 pp. Cuts. *London*, 1849

On Medical Electricity. (*Med. Gaz.*, June, 1847; and *Guy's Hospital Reports*, 1852, viii. pp. 139-46.)

† **Birt,** W. R. Report on the Discussion of the Electric Observations at Kew. 8vo. 87 pp. 6 plates. (*Report of the British Association for* 1849.) *London*, 1850

† **Birnbaum,** H. Das Reich der Wolken. *Leipzic*, 1859

**Bischof.** *Vide* Nöggerath and Bischof.

**Bischoff.** Das Volta-Elektrometer (of water, &c.) "als Maass für die Thätigkeit der Voltaischen Säule." (*Physikisches Wörterbuch*, 2 Abtheil. vol. iv. p. 885.)

**Bischoff,** C. H. Ern. Commentatio de usu Galvanismi in Arte Medica, speciatim in morbis Nervorum Paraliticis. 8vo. 2 plates. (From *Sue, Hist.* iii. 67.) *Jena*, 1801

**Bischof,** C. G. C. Ueber die Magnetische Eigenschaft. einiger Gebirgsarten des Fichtelgebirgs. 8vo. (*Schweigger's Journal*, xviii.) *Nürnberg*, 1816

Untersuch über die Elektrometrische und Chemische Wirkungen der Voltaischen Säule. 8vo. (*Kästner's Archives*, iv.) *Nürnberg*, 1825

Elektrometrische Wirkungen der Voltaische Säule und Leitungsfähigkeit des Glasses. 8vo. (*Schweigger's Journal*, xxxvi.) *Nürnberg*, 1822

Beitrage zum Elektro-magnetism. 8vo. (*Kästner's Archives*, i.) *Nürnberg*, 1824

**Bischof**—*continued.*

Ueber Volta's Fundamentalversuch. 8vo. (*Poggendorff's Annalen*, i.) *Leipzig*, 1824

Ueber die Bitburger Meteoreisen. 8vo. (*Poggendorff's Annalen*, ii.) *Leipzig*, 1824

Verfahren die Elektro-chemische Reihe der Metallen zu bestimmen. 8vo. (*Schweigger's Journal*, lii.) *Nürnberg*, 1827

† **Bismark,** Graf Von. Telegraphen-Ordnung für die Correspondenz im Deutsch-Oesterreichischen Telegraph-Verein, &c. Nebst den den innern Verkehr auf den Preussischen Linien betreffenden zusatzlichen Bestimmungen. Reglement für die Benutzung der Preussischen Eisenbahn-Telegraphen zur Beförderung solcher Depeschen, welche *nicht* den Eisenbahndienst betreffen. Nebst den übrigen Bestimmungen für den Expeditionsdienst im Telegraphischen Verkehr, so weit solcher durch Preussische Staats und Preussische Eisenbahn-Telegraphen vermittelt wird. 8vo. 30 pp. *Berlin*, 1866

† Reglement über die Benutzung der innerhalb des Nord-deutschen Telegraphen-Gebietes gelegenen Eisenbahn-Telegraphen zur Beförderung solcher Depeschen, welche nicht den Eisenbahn-dienst betreffen. 8vo. 15 pp. *Berlin*, 1868

† Telegraphen-Ordnung für die Correspondenz auf den Linien des Telegraphen-Vereins, &c. Nebst den den innern Verkehr auf den Linien des Nord-deutschen Telegraphen-Gebietes und der innerhalb desselben gelegenen Eisenbahnen betreffenden zusätzlichen Bestimmungen. Dezember, 1868. 8vo. 19 pp. *Berlin*, 1868

**Bizio,** Bartolommeo. *Born at Costozza, near Venice; died September* 27, 1862, *at Venice.*

Opuscoli Chimico-fisici. 8vo. tom. i. *Venezia*, 1827

† Intorno alle Molecole dei Corpi ed alle loro affinità dipendenti dalla Forza repulsiva insita alle Medesime. 4to. 120 pp. (*Nel* i. *Mem. dell' Imp. Regio Istit. Veneto di Scienze, Lettere ed Arti.*) *Venezia*, 1843

† Osservazioni intorno ad una condizionata particolarità della Grandine. 4to. 6 pp. (*Mem. dell' I. R. Istit. Veneto*, vi. part ii. p. 341.) *Venezia*, 1856

† **Bjerkander,** Clas. Auszug aus den zwanzigjährigen Witterungsbeobachtungen zu Seara welche zeigen wie oft die Donnerwetter gewesen sind. 8vo. 3 pp. (*Schwed. Akad. Abh.* xxxvii. 184.) *Leipzig*, 1775

† Fernere Anmerkungen über Donnerwetter. 8vo. 3 pp. (*K. Schwed. Akad. Abh.* xli. 220.) *Leipzig*, 1779

**Bjorn,** Hans Outzen. *Born Dec.* 14, 1777, *at Astrup, Bröns Sogn, Torningslehn; died May* 15, 1843, *at Frydenlund.*

De indole et origine Aërolithorum. 8vo. 88 pp. (*Heinsius*, vi. 85.) *Altona*, 1816 (*Contains many citations of books on the subject.*)

† **Black,** Jn. An attempt to establish a pure System of Mineralogy by the application of the Electro-chemical Theory, by T. J. Berzelius. Translated from the Swedish original. 8vo. 138 pp. (*Brugnatelli's copy.*) (*Vide* Berzelius.) *London*, 1814

† **Blackwall,** J. On luminous Arches of the Aurora Borealis seen at Manchester on the 1st and 26th December, 1828; and on that of the 29th of September, as seen at Dublin. 8vo. 2 pp. (*Phil. Mag. or Annals*, v. 153.) *London*, 1829

† **Bladth,** P. J. Berattelse om tvänne aske-slag som traffat Svenska skeppet Stockholms-Slott, i Ost-Indien, an 1777. (*Vetensk Acad. Nya Handl.* 1780, p. 102.) 1780

Bericht von zwei Blitz-Schlägen, welche das Schwedische Schiff Stockholms-Schloss in Ost-Indien, 1777, getroffen haben. 8vo. 14 pp. (*Neue Schwedische Akademie Abhandlung*, i. 1780, p. 97.) Translation. *Leipzig*, 1780

**Blainville.** On Organs of the Torpedo. (From *Matteucci and Savi.*)

**Blagden,** Sir Ch. An Account of some Fiery Meteors. 4to. (*Phil. Trans.* lxxiv. part i. 1784.) *London*, 1784

(*Toaldo, in vol.* iv. *p.* 283, *of the* "*Completa Raccolta*," *refers to this volume as* "*containing six articles on* '*Fiamma Volante*,' *Nos.* 8, 9, 10, 11, *and* 12, *containing various descriptions, &c., from different places concerning the globe* (*fire-ball*) *of the* 18*th of August*, 1783." *The last description is by Blagden, who thought fire-balls were electrical bodies.*)

**Blanc.** *Vide* Le Blanc.

**Blanford.** *Vide* Gastrell and Blanford.

† **Blaserna,** Pietro. Ueber den inducirten Strom der Nebenbatterie. (Vorgelegt 22 Juli, 1858.) 8vo. 46 pp. (*Aus den Sitzungsberichten* 1858 *der Mathem. Naturwiss. Classe der Kais. Akad. der Wissenschaften*, xxxiii. No. 24.) *Wien*, 1858

Ueber den inducirten Strom der Nebenbatterie. 8vo. 10 pp. (*Aus den Sitzungsberichten* 1859 *der Mathem. Naturwiss. Classe der K. Akad. der Wissenschaften.*) *Wien*, 1859

† Sullo sviluppo e la durata delle correnti d'induzione, e delle estra-correnti. Prima Memoria. 4to. 135 pp. 5 plates. (*Estratto dal Giornale delle Scienze Naturali ed Economiche*, vi. 1870.) *Palermo*, 1870

† **Blaserna, Mach, und Peterin.** Ueber elektrische Entladung und Induction. (Vorgelegt 14 Juli, 1859.) 8vo. 50 pp. (*Aus den Sitzungsberichten* 1859, *der Kais. Akad. der Wissenschaften*, xxxvii. No. 20.) *Wien*, 1859

† **Blavier,** E. E. Cours théorique et pratique de Télégraphie Electrique, par E. E. Blavier, Inspecteur des Lignes Télégraphiques. 12mo. 467 pp. 6 plates. *Paris*, 1857

Propagation de l'Electricité. Note sur la Réponse de M. Guillemin aux Observations de M. Gounelle. 8vo. 45 pp. *Nancy*, 1865

† Nouveau Traité de Télégraphie Electrique. Cours théorique et pratique à l'usage des Fonctionnaires, des Ingénieurs, &c. Tom. i. 8vo. 476 pp. *Paris*, 1865

† Nouveau Traité de Télégraphie Electrique. Cours théorique et pratique à l'usage des Fonctionnaires, des Ingénieurs, &c. Tom. ii. 8vo. 479 pp. *Paris*, 1867

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**Bloch.** Naturgeschichte der ausländischen Fische. Th. ii. 4to. *Berlin*, 1786

† **Block,** F. T. Dissertatio Physica altera de Electricitate. Thesis read 3rd February, 1753. 4to. 32 pp. *Duisburgi ad Rhenum*, 1753?

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† **Bobierre,** A. Thèse de Physique. Des Phénomènes Electro-chimiques qui caractèrisent l'Altération à la Mer, des Alliages employés pour doubler les Navires. 4to. 79 pp. 1 plate. *Nantes*, 1858

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**Boeckmann,** Johann Lorenz. *Born May* 8, 1741, *at Lubeck; died Dec.* 15, 1802, *at Carlsruhe.*

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**Bodde,** Johann Bernhard. *Born Nov.* 24, 1760, *at Lette Herrschafs, Rheda; died July* 24, 1833, *at Münster.*

† Grundzüge zur Theorie der Blitzableiter. 8vo. 84 pp. *Münster*, 1809

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† **Boggio,** Ig. Indoratura ed inargentatura Elettrico-chimica. 8vo. 59 pp. *Novara*, 1848

† **Bohadsch,** Johann Baptist. *Born* 1724, *at Prag; died Oct.* 16, 1768, *at Prag.*
Dissertatio de utilitate Electrisationis in Arte Medica. 4to. 24 pp. (*Volta's copy.*) *Pragæ*, 1751

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**Böhm,** Joseph George. *Born March* 27, 1807, *at Rozdialowitz Böhmen, Kr. Bunzlau.*

**Bohm and Kunes.** Magnetische und Meteorologische Beobachtungen zu Prag. Auf öffentliche Kosten herausgegeben von Jos. G. Böhm und Adalbert Kunes. Jahrgänge vom 1 Jan. 1850, bis 31 Dec. 1852. 3 vols. 4to. *Prague*, 1853-55

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**Bohnenberger,** Gottlieb Christian. *Born March* 4, 1732, *at Neuenberg, Wurtemberg; died May* 29, 1807, *at Altburg.*

† Beschreibung einer . . . Electrisir Maschine nebst einer neuen Erfindung, die Electrische Flaschen betreffen. 8vo. 76 pp. 6 plates. (*Volta's copy.*) *Stutgart*, 1784

† Fortgesetze Beschreibung, einer Electrisir Maschine von ganz neuer Erfindung. 8vo. 110 pp. 6 plates. (*Volta's copy.*) *Stutgart*, 1786

† Beschreibung einer Elektrisir Maschine und einiger neuen Versuche. 8vo. 138 pp. 4 plates. Zweite Fortsetzung. (*Volta's copy.*) *Stutgart*, 1786

† Beschreibung einiger Elektrischer Maschinen und Elektrischer Versuche. 8vo. 224 pp. 5 plates. Dritte Fortsetzung. (*Volta's copy.*) *Stutgart*, 1788

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† Beschreibung einiger Elektrischer Maschinen und Elektrischer Werkzeuge. 8vo. 352 pp. 4 plates. Sechste und lezte Fortsetzung. (*Volta's copy.*) *Stutgart*, 1791

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† Beyträge zur theoretischen und praktischen Elektricitäts-lehre. 8vo. 178 pp. 1 plate. Zweites Stück. *Stutgart*, 1793

† Beyträge zur theoretischen und praktischen Elektricitäts-lehre. 8vo. 166 pp. 2 plates. Drittes Stück. *Stutgart*, 1794

† Beyträge zur theoretischen und praktischen Elektricitäts-lehre. Viertes Stück. 8vo. 183 pp. 1 plate. *Stutgart*, 1795

Beyträge zur theoretischen und praktischen Elektricitäts-lehre. Fünfte Stück. 1795

† Beschreibung unterschiedlicher Elektrizitätsverdoppler von einer neuen Einrichtung nebst. . . . Versuchen. 8vo. 271 pp. 5 plates. *Stutgart*, 1798

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† **Bois,** Victor. La Télégraphie Electrique. 1st edition. 8vo. 114 pp. (*Forms part of the Bibliothèque des Chemins de Fer.*) *Paris*, 1853

† La Télégraphie Electrique. 2nd edition. 12mo. 128 pp. *Paris*, 1855 *or* 1856

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† **Boisbouvray,** Baron de. Un mot sur l'Electricité. 8vo. 71 pp. *Paris*, 1823

† **Boisgerard,** Jun. On the Action of the Voltaic Pile upon the Magnetic Needle. Read in the Academy 9th November, 1820. 8vo. 4 pp. (*Phil. Mag.* lvii. 203.) *London*, 1821

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† **Boissier,** H. Mémoire sur la Décomposition de l'Eau par les Substances métalliques. 4to. 7 pp. *Paris*, 1801

**Bollenatus** Burgundo-gallus. Theses physicæ de Meteoris ignitis. 4to. 8 pp. 1607

**Bolley,** Pompejus. *Born May* 7, 1812, *at Zindelberg.*

† Was ist ein elektrischer Telegraph. 8vo. Cuts. (*Aus dem Schweizerischen Gewerbeblatt.*) *Aarau*, 1852

**Bollinger,** A. F. De effectu catalytico Rivi galvanici constantis. *Berol.* 1863

† **Bologna Academy.** Notizia del Nuovo Istituto dell' Accad. di Bologna, di Corazza. 8vo. 207 pp. *Bologna*, 1780

Memoria storica sopra l'Università e l'Istituto delle Scienze di Bologna; di Mazzetti. 8vo. *Bologna*, 1840

1. Acad. Bonon. et Instit. Commentarii. 7 vols. (in 10 parts). 4to. 1731 *ad* 1791
2. Mem. dell' Istit. Nazionale Ital. 3 vols. (in 6 parts). 4to. 1806 *ad* 1813
3. Comment. Novi Acad. Scient. Bonon. 10 vols. 4to. 1834 *ad* 1850
4. Mem. dell' Accad. dell' Istit. di Bologna. 4to. 1850

(*Part of these are in the Library.*)

Rendiconto delle Sessioni dell' Accad. . . . dell' Istituto di Bologna. 8vo. *Bologna*

† Programma del Premio Aldini. 8vo. 1 p. (*Giornale I. R. Ist. Lombardo*, viii. 281.) *Milano*, 1843

† Programma dell' Accad. dell' Istituto di Bologna. 8vo. (*Giornale I. R. Ist. Lombardo*, xiii. 408.) 1846

(*Not having conferred "il Premio Aldini sul Galvanismo" hitherto, the Academy re-proposes the subject in new terms.*)

Programma dell' Accad. dell' Istituto di Bologna. Concorso al Premio Aldini sul Galvanismo. 4to. (*Giornale I. R. Ist. Lombardo, nuova serie*, viii. 352.) 1856

(*Reference is made to the Academic premium given to Grimelli for a memoir, "Sulla cosi detta Corrente della Rana," &c. in tom. x. of the Nuovi Commentarii, and the Academy proposed, as a continuation for* 1854, *another Tema on the "Corrente Muscolare," and concerning Du Bois-Reymond's theory.*)

**Bologna Medical Society.** Memorie della Società Medica di Bologna. *Bologna*

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**Boltzmann,** Ludwig. Ueber die Bewegung der Elektricität in krummen Flächen. 8vo. 8 pp. (*Zuchold's Cat.* 1866-67. *Aus den Sitzungsberichten der Kaiserl. Akademie der Wissenschaften abgedruckt.*) *Wien*, 1865

† Ueber die elektrodynamische Wechselwirkung der Theile eines elektrischen Stromes von veränlicher Gestalt. 8vo. 19 pp. 1 plate. (*Aus dem* lx. *Bde. der Sitzungsberichten der Kaiserl. Akad. der Wissenschaften, Abth.* ii. *Juni Heft*, 1869.) *Wien*, 1869

† **Bombay Magnetic Observatory.** Electrometer Observations (made by means of F. Ronalds's Atmospheric Apparatus). Fol. 1 p. *Bombay*, 1850

Observations for 1847, under the superintendence of C. W. Montriou. Part ii. 4to. *Bombay*, 1851

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Observations (Magnetical and Meteorological) made at the Hon. East India Company's Observatory at Bombay, in the year 1849. 4to. *Bombay*, 1852

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*Vide* also Orlebar.

† **Bompass,** Charles C. An Essay on the nature of Heat, Light, and Electricity. 8vo. 266 pp. *London*, 1817

**Bona e Corner.** Relazione dell' andamento ed effetti del Fulmine che colpì il Campanile . . . di S. Francesco della Vigna (in Venezia), l'anno 1780, 24 Maggio. 4to. 8 pp. *Venezia*, 1780

(*This title is abridged from that of an official report made by Bona and Corner, officers of Artillery.*)

**Bonaparte,** C. L., Principe di Musignano. Iconografia della Fauna Italica. Fasc. 12. *Roma*, 1835

**Bonaparte,** Louis Charles Napoléon. *Born April* 20, 1808, *at Paris; died Jan.* 9, 1873, *at Chislehurst, Kent.*

Sur la Théorie de la Pile Voltaique. 4to. (*Comptes Rendus*, xvi. 1843.) *Paris*, 1843

† Décret qui institue un Prix en faveur de l'Auteur des découvertes qui rendront la Pile de Volta applicable avec économie, soit à l'Industrie, comme source de chaleur, soit à l'Éclairage, soit à la Chimie, soit à la Mécanique, soit à la Médecine pratique. 8vo. 2 pp. *Paris*, 1852

(*This article is contained in the "Bulletin des Lois de la Républigue Française,"* No. 497, p. 554. *The decree is dated 23d February*, 1852.)

**Bonaparte,** Premier Consul. Lettre au Ministre de l'Intérieur qui l'a transmise à . . . l'Institut. Ecrite le 26 Prairial, An. x. *Paris*, 1802

(*The annual galvanic prize medal of* 3,000 *francs value, and* 60,000 *francs as "encouragement" for an advance in electricity and galvanism comparable to that made by Franklin and Volta.*)

**Bond.** Apparatus for Astronomical Observations.
(*From Moigno. No particulars. "Présenté récemment à Ipswich. Employed at the Greenwich Observatory*, 1852.")

† **Bond,** B. R. The Hand-Book of the Telegraph; a Comprehensive Guide to Telegraphy, Telegraph Clerks' Remembrancer, and Guide to Candidates for Employment in the Telegraph Service. 12mo. 68 pp. *London*, 1864

**Bond,** Henry. On Two Magnetic Poles. 1646 (?)

(*Extract from page* 3 *of his work entitled "The Longitude Found," and refers to his statement in the Seaman's Kalender about* 30 *years since, i. e. in about* 1646. *The above title is probably not exact.*)

The Variations of the Magnetic Needle predicted for many years following. 4to. (*Phil. Trans.* 1668.) *London*, 1668

The Undertakings of Mr. H. Bond, a famous teacher of the art of navigation, in London, concerning the Variation of the Magnetical Compass and the Inclination of the Inclinatory Needle. 4to. (*Phil. Trans.* 1672.) *London*, 1672

On the Variation of the Magnetical Compass and the Inclinatory Needle; as the result and conclusion of 38 years' magnetical study. 4to. (*Phil. Trans.* an. 1673, p. 6065.) *London*, 1673

† On the Inclination of the Inclinatory Needle.
(*Churchman's Introduction*, p. 10, *says*, "*A small treatise in the time of Charles the Second, and dedicated to him.*")

**Bond.** (*Vide* Lovering and Bond.)

† **Bond,** Henry, Sen. The Longitude Found; or a Treatise shewing an Easie and Speedy way, as well by Night as by Day, to find the Longitude, having but the Latitude of the Place, and the Inclination of the Magnetical Inclinatorie Needle. Printed by the King's Majesties Special Command. sm. 4to. Dedication to Charles the Second, 3 pp. Epistle to the Reader, &c. 4 pp. The King's Licence, &c. 3 pp. Text, 65 pp. 7 woodcuts, each on a separate leaf. (*Scarce.*) 1676

**Bond,** W. C. Description of the Electro-recording Apparatus in the Astronomical Observatory of Harvard College. Plate. (*History and Description of the Astronomical Observatory. Annals of ditto*, vol. i. part i. p. xlix.-lv.) 1856

**Bondioli,** Pietro Antonio. *Born* 1765 *at Corfu; died September* 16, 1808, *at Bologna.*

† Sopra l'Aurora Boreale. Memoria letta nell' Accad. di Padova 15 Dec. 1790. 8vo. 25 pp. (*Volta's copy.*) 1790 (?)

† Sopra l'Aurora Boreale. Memoria. 8vo. 11 pp. (*Giornale Fisico-Medico di Brugnatelli*, i. 55. *Letta nell' Accad. di Padova*, 1790.) *Pavia*, 1792
(*This is a reprint of the above.*)

† Sopra le Aurore Boreali locali. Memoria. Presentata 19 Otto. 1801. 4to. 16 pp. (*Mem. Soc. Ital.* ix. 422.) *Modena*, 1802

† Elogio di Pietro Antonio Bondioli scritto da M. Pieri. Inserito nel tom. xv. della Soc. Ital. Seconda ed. 8vo. *Treviso*, 1812

† **Bonel,** A. Histoire de la Télégraphie. Description des principaux Appareils aériens et électriques. 12mo. 147 pp. plates. *Paris*, 1857

**Bonelli,** G.

*Vide* Du Moncel.

† Du Télégraphe des Locomotives de G. Bonelli. Système destiné à prévenir les collisions sur les Chemins de Fer. 8vo. 16 pp. *Paris*, 1856

† **Bonetti,** E. Di alcuni effetti dell' Elettrico sopra l'animale economia di G. Namias. 8vo. 5 pp. (*Giornale dell' I. R. Istit. Lombardo*, tom. iv. p. 214.) *Milano*, 1842

**Bonifas.** (*Vide* Ducala-Bonifas, M.)

**Bonijol,** L. Verfertigte, unter anderen Instrumenten auch eins, mittelst dessen, durch atmosphäriche Elektricität chemische Zersetzungen bewerkt werden. 8vo. (*Bibl. Univers.* xlv.) *Geneva*, 1830

† **Bonnefoy.** De l'application de l'Electricité à l'art de guérir. Dissertation inaugurale . . . Collége Royal de Chirurgie à Lyon. Read 30th November, 1782. 8vo. 163 pp. *Lyon*, 1782
(*There is also a German version.*)

De l'application de l'Electricité. *Lyon*, 1783

† **Bonnejoy.** Les Moyens pratiques de constater la mort par l'Electricité à l'aide de la Faradisation. 8vo. 32 pp. *Paris*, 1866

**Bonnet,** Charles. *Born March* 13, 1720, *at Genf.; died May* 20, 1793, *at Genthod b. Genf.*

Contemplazione della Natura. *Venezia*, 1797
(*Elice Saggio, 2nd edition, p.* 29, *says that Bonnet "scriveva nell' anno* 1781, *che l'elettricità agisce sui nervi e sui muscoli . . . e che si riproducono in tal guisa le vibrazioni del cuore di una rana anche tre giorni dopo che é stato staccato dal di lei petto."* Tom. i. p. 169. *Di Bonnet.*)

† **Bonnycastle,** C. On the Distribution of the Magnetic Fluids in masses of Iron; and on the Deviations which they produce in Compasses placed within their influence. 8vo. 11 pp. 1 plate. (*Phil. Mag.* lv. 446.) *London*, 1820

**Bonnycastle,** C., and another. On Mr. Bonnycastle's Dissertation on the Influence of masses of Iron on the Mariner's Compass, published in our 55th volume. 8vo. 5 pp. (*Phil. Mag.* lvi. 346.) *London*, 1820

**Bonvicini,** J. De Electrico Fluido in naturam agente. Thesis. 4to. *Venezia*, 1791

**Bonzi.** (*Vide* Beccari and Bonzi.)

† **Boquillon.** De l'Electrotypie, A. M. Quesneville, directeur. 8vo. 48 pp. (*Extrait de la Revue Scientifique et Industrielle du Dr. Quesneville*, tom. xi. 1842.) *Paris*

**Borch,** Michael Johann, Graf. *Born June* 30, 1753, *at* (*N. St.*) *Warkland; died January* 10, 1811, *at* (*N. St.*) *Warkland.*

† Memoria sopra il Fosforo marino. 4to. 8 pp. (*Atti dell' Accad. di Siena*, vi. 1781, p. 317.) *Siena*, 1781

**Borchers.** Anwendung eines kräftigen Magnets zur Ermittelung der Durchschlagsrichtung zweier Gegenorter. *Clausthal*, 1864

**Borde,** Jean Baptiste de la. (*Vide* La Borde.)

**Bordé,** F. Trattato elementare di Elettricità accomodato all' intelligenza comune. 8vo. 174 pp. 1 plate. *Modena*, 1843

**Bordeaux Academy.** Recueil des Dissertations qui ont remporté le prix de l'Académie Royale. 6 vols. 12mo. *Bordeaux*, 1715-39

(*This recueil contains three dissertations only on electricity, and they are printed each with a separate title-page, and are sold separately. Vide Lazeran-du-Fech*, 1726; *Sarrabat*, 1727; *and Quelmalz*, 1753.)

Recueil des Dissertations qui ont remporté le prix de l'Académie Royale. 3 vols. 4to. *Bordeaux*, 1741-79

(*This recueil contains three dissertations on electricity, and they are printed and sold separately. Vide Desagulier*, 1742; *Beraud*, 1748; *and Barberet*, 1750.)

Recueil des Ouvrages du Musée de Bordeaux. 1 vol. 8vo. 428 pp. *Bordeaux*, 1787

Séances de l'Académie Royale des Sciences, Belles Lettres, et Arts de Bordeaux. 8vo. Plates. *Bordeaux*, 1837

Recueil des Actes de l'Académie Royale de Bordeaux. Première Année, printed 1839, containing the "Actes" of 1838. *Bordeaux*, 1839-

Catalogue of the Library of the Imperial Academy. MS. fol. *Bordeaux, n. d.*

**Bordeaux Chambre de Commerce.** Catalogue des Livres composant la Bibliothèque de la Chambre de Commerce de Bordeaux, avec Supplément. 8vo. *Bordeaux*, 1852

Premier Supplément au Catalogue de la Bibliothèque de la Chambre de Commerce de Bordeaux, année 1855. Ouvrages reçus du 1 Jan. au 31 Déc. Fol. MSS. *Bordeaux*, 1855

Catalogue, containing additions. MSS. fol. *Bordeaux*

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**Bordeaux Public Library.** Catalogue. 8vo. *Bordeaux*, 1830

Supplément. 8vo. *Bordeaux*, 1847

† **Bordier,** Marcet. Notice d'un Fanal. 32 pp. 1 plate. *Paris*, 1823

† **Borelli,** G. Sull' Applicazione dell' Elettricità alla Navigazione. 8vo. 15 pp. 1 plate. *Torino*, 1855

**Borenius,** H. G. Om de framsteg som kunskapen om Jordmagnetismen gjort i synnerhet under de sednaste decennierna. 4to. 27 pp. (*Föredr. pa Finska Vetenskaps-Societetens årsdag den* 29 *April*, 1851. *Act. Soc. Fenn.* iii. 1852.) *Helsingfors*, 1852

**Borgo,** C. Vissuto dopo la metà del secolo, xviii.

(*In his work, "Analisi ed Esame ragionato dell' arte della fortificatura delle piazze," is described his invention, called the Cifraparlante, which is exactly the telegraph* (*messo in voga*) *after him.*)

**Born** (Edlen von Born). (*Vide* Prag.)

**Borough,** William. A Discours on the Variation of the Compas or Magneticall Needle, wherein is mathematically showed the maner of the observation, effectes, and application thereof, made by W. B. And is to be annexed to the new Attractive of R. N. 1581. *London*, **1581**

(*Note.—There is another edition, dated* 1585, *bound up with Norman*, 1585, *the preface bearing the same date as above.*)

*Vide* Norman, Robert.

**Borc,** d'Antic Paul. *Born* 1726, *at Pierre Segude, Languedoc; died June*, 1784, *at Paris.*

Mémoire sur la nature de la Matière électrique, et où l'on prouve que le verre n'est pas électrique par lui-même. 8vo. (*Mém. de l'Acad. de Dijon*, tom. ii. p. 29.) *Dijon*, **1774**

Œuvres contenant plusieurs Mémoires sur l'art de la Verrerie, sur la Faiencerie, la Poterie, l'art des Forges, la Minéralogie, l'Electricité, et la Médecine. 2 vols. 12mo. *Paris*, **1780**

**Boscha,** J., jun. Het behoud van arbeids-vermogen in den galvanischen Stroom, Eene voorlezing voorgedragen in het Natuurkundig Gezelschapte Utrecht, 15 Januarij, 1858. Meet aanteckeningen. 8vo. 119 pp. *Leyden*, **1858**

**Boscovich,** Ruggiero Giuseppe. *Born May* 18, 1711, *at Ragusa; died February* 15, 1787, *at Mailand. Poggendorf*, i. 246.)

Dialoghi sull' Aurora Boreale. 4to. 47 pp. **1748 (?)**

Sopra il Turbine. 8vo. *Roma*, **1749**

**Böse,** C. H. Völlig entdecktes Geheimniss des Barth'schen Wetterparaskops. (*Reichs Anzeiger*, 1794.) **1794**

*Vide* also Albanus and Böse.

**Böse,** Georg Matthias. *Born September* 22, 1710, *at Leipzig; died September* 17, 1761, *at Magdeburg.*

De attractione et electricitate, oratio inauguralis, quam in alma Matre Leucorea d. 17 Mart. 1738, Physicam ordinarie docturus habuit G. M. Böse. 4to. *Vitemburg*, **1738**

(*Note.—In his "Tentamina Electrica" this is called "Commentarius Primus Oratio inauguralis," &c. habita d.* 17 March, 1738. *It is not said to be the first Commentary in the title-page.*)

Expériences sur l'Electricité. 4to. (*Mém. de Paris*, 1743, *Hist.* p. 45.) *Paris*, **1743**

De Electricitate. Commentarius ii. quo simul ad capessendos honores magisteriales, et lauream poeticam invitabatur, 3 Novembre. *Wittembergæ*, **1743**

† Tentamina Electrica in Academiis Regalis Londinensi et Parisina primum habita, omni studio repetita quæ novis aliquot accessionibus locupletavit Geo. Mat. Böse. 4to. 96 pp. *Wittembergæ*, **1744**

(*This volume contains the Oratio inauguralis, or first Commentary, and the commencement of the second and third.*)

De Electricitate inflammante et beatificante. Commentarius iii. Mai. 1744. *Wittembergæ*, **1744**

Die Elektricität nach ihrer Entdeckung und Fortgang mit poetischer Feder entworfen. 4to. *Wittenburg*, **1744**

† Abstract of a Letter from Böse to De Maisan. Communicated by Baker from Ellis, and translated out of the Latin by Baker. Read May 23, 1745. 4to. 2 pp. (*Phil. Trans.* xliii. 419.) *London*, **1744-45**

Discours sur la lumière des Diamants, prononcé à Leipzig le 12 Mai, 1745. 4to. 12 pp. *Göttingen*, **1745**

† Recherches sur la cause et sur la véritable théorie de l'Electricité. A Messieurs de la Société Royale de Londres. 4to. 56 pp. *Wittemberg*, **1745**

Recherches sur la cause et sur la véritable théorie de l'Electricité. **1746**

Tentamina Electrica hydraulicæ . . . utilia. Pars posterior. 4to. *Wittemberg*, **1746**

**Böse,** Georg Matthias—*continued.*

† Tentamina Electrica tandem aliquando hydraulicæ chymiæ et vegetabilibus utilia. Pars posterior. 4to. 47 pp. *Wittembergæ*, 1747

(*Note.—This volume contains his fourth and fifth Commentaries, the fourth written in* 1746. *Vide the 2nd page of his address.*)

† Extract of a Letter from G. M. Böse to W. Watson, on the Electricity of Glass that has been exposed to strong fires. Read April 6, 1749. 4to. (*Phil. Trans.* xlvi. 189.) *London*, 1749-50

Meteora heliaca, seu de maculis in sole deprehensis. *Lipsiæ*, 1754

L'Electricité, son origine et ses progrès. Poème traduit de l'Allemand par l'Abbé Joseph Ant. de C* * *. 12mo. 2 parts. 72 pp. *Leipzig*, 1754

(*This so-called translation is by Böse himself.*)

Meteora heliaca seu de maculis in sole deprehensis. *Lipsiæ* 1754

† * Sympathiam attractioni et gravitati substituit. . . . G. M. B. 4to. 20 pp. *Wittemburg*

De Terræ motus causis. *Viteb.* 1756

(*Vide* Anonymous, Electricity, 1744.)

† **Bosellini,** F. Spiegazione della Luce Boreale vedutasi il 16 Dec. 1737. 12mo. 27 pp. (*Callogera, Raccolta,* xvii. 141. *Before published.*) *Venezia*, 1738

**Bosscha,** J. Dissertatio inaugurata de Galvanometro differentiali. *Ludg. Bat.* 1854

Gleichzeitige Beförderung von drei oder vier Depeschen durch einen telegraphischen Leitungsdraht. (*Telegraphen-Vereins, Jahrg.* iii. s. 27 *und* 51, *aus Verslagen en Mededeelingen der Koninck. Acad. Dl.* iv.)

**Bossi,** Luigi. *Born February* 28, 1758, *at Milan; died April* 10, 1835, *at Milan.*

† Bolide . . . nel Lario, 18 Mar. 1834. 8vo. 4 pp. (*Bibliot. Ital.* lxxiii. 355.) *Milano*, 1834

**Bostock,** John. *Born* 1774 *at Liverpool; died August* 6, 1846, *in London.*

† An Account of the History and present State of Galvanism. 8vo. 164 pp. 2 plates. *London*, 1818

**Boston.** (*Vide* American Academy.)

**Böttger,** R. Beyträge zur Physik und Chimie. Eine Sammlung eigener Erfahrungen, Versuche und Beobachtung. 1 Heft. 8vo. *Frankfurt*, 1838

Idem. 2 Heft. Neuere Beiträge. 1841

Idem. 3 Heft. Materialien Vorlesungen. 1846

Ueber die Einrichtung und Behandlung der Dobereinerschen Zündmaschine. 2 Auflagen. *Sondershausen*, 1838

Mémoires où on trouve un mode d'argenture sur cuivre et laiton dans une solution ammoniacale d'azotate d'argent avec excès d'ammoniaque, à l'aide d'une pile distincte. (*L'Ami de l'Industrie de Frankfort, en Juillet*, 1840.) *Frankfort*, 1840

**Bottis,** G. Breve relazione degli effetti di un Fulmine che cadde in Napoli il mese di Giugno del presente anno 1774; e alcune considerazioni sopra i medesimi. 4to. 27 pp. *Napoli*, 1774

**Botto,** Giuseppe Domenico. *Born April* 4, 1791, *at Moneglia b. Genua.*

† Esperienze sull' azione chimica delle correnti indotte dal Magnetismo terrestre e dai ferro-elettro-magneti con alcune Osservazioni sulla loro trasmissibilità nei conduttori liquidi, e sui fenomeni del disco di Arago. 8vo. 20 pp. 1 plate. (*Faraday's copy.*) *Turin*, 1834

† Esperienze sull' azione chimica delle correnti indotte dal Magnetismo terrestre, e dai ferro-elettro-magneti con alcune Osservazioni. 8vo. 22 pp. 1 plate. (*Ext. Bibl. Univ.* lviii. 205.) *Torino*, 1834

† Note on the application of Electro-magnetism as a mechanical power. 8vo. (*Taylor's Scientific Memoirs*, vol. i. part iv. p. 532. *Bibl. Univ.* vol. lvi.) *London*, 1837

**Botto,** Giuseppe Domenico—*continued.*

Notizia sopra l'applicazione dell' Elettromagnetismo alla Meccanica. 8vo. 6 pp. *Torino,* 1834

† Expériences sur les rapports entre l'induction électromagnétique et l'action électrochimique, suivies de considérations sur les machines électromagnétiques. Lu 15 Février, 1842. 4to. 18 pp. (*Mém. Torino,* 2nd series.) *Turin,* 1843

† Sur les lois de la chaleur degagée par le courant voltaïque et sur celles qui régissent le développement de l'Électricité dans la pile. Lu 9 Février, 1845. 4to. 18 pp. (*Acad. de Turin,* serie ii. tom. viii.) *Turin,* 1845

† Note sur un nouveau système de Télégraphie électrique. 4to. 4 pp. (*Poggendorff says Mém. Turin,* xi. 1851.) *Turin, n. d.*

† **Botto et Avogadro.** Mémoire sur les rapports entre le pouvoir conducteur des liquides pour les courants électriques et la décomposition chimique qu'ils en éprouvent. 4to. 39 pp. 1 plate. *Turin,* 1839

**Boucher.** (*Vide* Le Boucher.)

**Boudet,** P. Guide de l'Expéditeur des Dépêches Télégraphiques, avec les tarifs, pour la France et l'étranger. 12mo. *Paris,* 1869

† **Boudin.** Histoire physique et Médicale de la Foudre, et de ses effets sur l'homme, les animaux, les plantes, les édifices, les navires. 8vo. 31 pp. (*Ext. Annales d'Hygiène, &c.*) *Paris,* 1854

† De la Foudre considérée au point de vue de l'Histoire, de la Médecine légale, et de l'Hygiène publique. 8vo. 50 pp. *Paris,* 1855

† Histoire de la Foudre et des Paratonnerres. 8vo. 57 pp. cuts. (*Ext. Annales d'Hygiène.*) *Paris,* 1855

**Boué,** A. Chronologischer Katalog der Nordlichter bis zum J. 1856, sammt einer Bibliographie über diese Erscheinung. 8vo. 74 pp. (*Aus den Sitzungsberichten* 1856 *der Kaiser. Akad. der Wissenschaften.*) *Wien,* 1857

† Parallele der Erdbeben, der Nordlichter, und des Erdmagnetismus, sammt ihren Zusammenhang mit dem Erdplastik, &c. 8vo. 75 pp. (*Aus den Sitzungsberichten der Kaiserl. Akad. der Wissenschaften,* xxii. 8, 323.) *Wien,* 1857

† Etwas über Vulkanismus und Plutonismus in Verbindung mit Erdmagnetismus, sowie eines Aufzählungs-versuchs der submarinischen brennenden Vulkane. 8vo. 39 pp. (*Sitzungsb. der Mathem.-naturn.* Cl. lix. 1 Abth.) *Wien,* 1869

† Ueber das gefärbte Seewasser und dessen Phosphorescenz im Allgemeinen. 8vo. 12 pp. (*Sitzungsb. der Mathem.-naturn.* Cl. lix. 2 Abth.) *Wien,* 1869

† Ueber die Geologie der Erdoberfläche, in Rücksicht auf die Vertheilung der Temperatur, der Aërolithen und der Oceane. 8vo. 47 pp. (*Sitzungsb. der K. Akad. Wien,* 1850, 1 Heft, p. 59.) *Wien,* 1850

† Chronologische Catalogue der Nordlichter bis zum Jahre 1856, sammt einer Bibliographie über diese Erscheinung. Vorgelegt im Januar, 1856. 8vo. 72 pp. (*Sitzungsberichte der K. Akad. der Wissenschaften,* vol. xxii. 1 Heft.) *Wien,* 1856

**Bougainville,** Louis Antoine, Comte de. *Born November* 11, 1729, *at Paris; died August* 31, 1811, *at Paris.*

† Some particulars of the Life of Count Bougainville. By M. Delambre. 8vo. 8 pp. (*Phil. Mag.* xliii. 371.) *London,* 1814

Journal de la Navigation autour du Globe de la frégate la Thétis et de la corvette l'Espérance, pendant les années 1824-5-6. Publié par ordre du Roi. Par M. le Baron de Bougainville, Cap. de Vaisseau, et Chef de l'Expédition. 2 vols. 4to. and atlas of 56 plates. vol. i. 742 pp. vol. ii. 351 pp. Vol. ii. has an additional title-page, and is edited by Ed. de la Touanne, lieutenant de la Thétis. Astronomical and Meteorological Observations in 2nd part of vol. ii. 165 pp., declinations included. 1837

**Bouguer,** Pierre. *Born February* 16, 1698, *at Croisic, Basse-Bretagne; died August* 15, 1758, *at Paris.*

**Bouguer**—*continued.*

† Remarques sur le Mémoire de M. Meynier touchant la meilleure Méthode d'observer sur mer la déclinaison de l'aiguille aimantée. 4to. 7 pp.
(*Meynier's Mémoire is dated* 1732.)

† De la Méthode d'observer en mer la déclinaison de la Boussole. A remporté le Prix 1731. 4to. 67 pp. *Paris*, 1731
(*Bound with it is his undated work, 7 pages, "Remarques sur le Mémoire de M. Meynier touchant la meilleure Méthode d'observer sur mer la déclinaison de l'aiguille aimantée." This* (*Bouguer*) *is in the Pièces de Prix de l'Acad. de Paris*, ii. *Mém.* 6.)

† Traité de Navigation, contenant la théorie et la pratique du pilotage. 8vo. 422 pp. *Paris*, 1753

Vidit in America flammas e montibus exsilientes, dum certæ nubes (nimirum defectu electricæ) contra eosdem vento ferrentur. 4to. (*Mém de l'Acad. an* 1755, p. 281.) *Paris*, 1755.

Traité de Navigation. (*From Van Swinden*, vol. ii. p. 101.)

Voyage au Pérou (p. 48.)
(*Note.—On the temperature of the atmosphere, at various heights, in reference to the formation of hail.*)

**Bouilhet,** H. Mémoire sur le Cyanure double de potassium et d'argent et sur son rôle dans l'argenture électro-chimique. 8vo. (*Ann. de Chim. et de Phys.* 3rd series, xxxiv. *Paris*

**Bouillet,** J. Description d'une Aurore Boréale singulière dans ses effets. 4to. (*Mém de Paris*, 1730.) *Paris*, 1730

De l'état des connaissances relatives à l'Eléctricité chez les anciens peuples de l'Italie. 8vo. 31 pp. *Saint Etienne*, 1862

**Bouillon,** Marquis de. His Mosaic Gold for Electric Rubbers. 4to. (*Observ. de Phys.* xxi.) *Paris*

**Boulangé.** (*Vide* Le Boulangé.)

**Boullanger** (or Anonymous). Mémoire sur l'Electricité. 8vo. 37 pp. (*Vide Nollet Essai*, 2nd edition, pp. 217, 240, 242.) *Paris*, 1746

Suite du Mémoire sur l'Electricité. 8vo. 30 pp. *Paris*, 1748

Lettre à l'Abbé Nollet sur l'Electricité. 8vo. 45 pp. *Londres*, 1749
(*For evidence of this work being by Boullanger vide page* 8 *of it.*)

† **Boullangère.** Traité de la cause et des phénomènes de l'Electricité. 2 vols. 8vo. *Paris*, 1750

† **Boulu.** Traitement des Adénites cervicales chroniques au moyen de l'Electricité localisée. 8vo. 31 pp. (*Extrait du Rapport lu à l'Acad. Imp. de Méd. le* 22 *Ap.* 1856.) *Paris*, 1856

† **Bourdon,** M. A. Account of a Shower of Stones; in a Letter from the Prefect of the Department of Vaucluse to the French Minister of the Interior, dated November 10, 1803. 8vo. 4 pp. (*Phil. Mag.* xvii. 271.) *London*, 1803

† **Bourdonnay,** Duclésio. Sur la distribution de l'Electricité à la surface des corps conducteurs. Thèse. 4to. 44 pp. *Paris*, 1840

**Bourges,** Secrétaire de l'Acad. de Bordeaux. Rapport sur les travaux de l'Académie, Séance 1835, 10 Sept. 8vo. (*Séances de l'Académie de Bordeaux pour* 1835, p. 48.) *Bordeaux*, 1835
(*Note.—Contains mention of Vallot's "Résultats;" amongst others, "Le Rapport qui existe entre la pierre nommée par Pline Carchedoine* (*sic*) *et la Tourmaline."*)

Rapport sur les travaux de l'Académie, Séance 1837, 22 Sept. 8vo. (*Séances de l'Académie de Bordeaux pour* 1837, p. 83.) *Bordeaux*, 1837
(*Note.—Contains notices of two memoirs, as replies to a prize question on Lightning-conductors. The first is an anonymous one, which speaks of the forms of roofs and of metallic masses spread over the edifice, &c. The second is by Mermet, of Pau, who received a gold medal, but not the prize.*)

**Bourges**—*continued.*

Rapport sur les travaux de l' Acad. 1r Trimestre 1838. 8vo. (*Actes de l'Acad. de Bord. pour* 1838, p. 84.) *Bordeaux*, 1839

(*Note.—Contains mention of Gachet's Notice sur deux échantillons de météorolites, one of which was from the meteorolite mentioned by Brard.*)

† **Bourgoin,** Edme. Electrochimie. Nouvelles recherches électrolytiques. 8vo. 36 pp. (*Ecole superieure de Pharmacie de Paris.*) *Paris*, 1868

**Bourgouet.** Rapport sur des expériences d'Electricité galvanique fortifiée. 8vo. (*Journal de Chim. de Van Mons*, No. iv. p. 73.) *Bruxelles*

(*Vide* also Prevost, P.)

† **Boussac,** A. Précis de Télégraphie électrique et des connaissances mathématiques, physiques, et chimiques indispensables pour la télégraphie. 8vo. 503 pp. *Paris*, 1868

**Boussingault.** Expériences constatant l'efficacité des Lampes de Davy. Emploi de la lumière produite par la pile dans les lieux où l'atmosphère est sujette à devenir détonnante. 4to. (*Comptes Rendus*, xxi. 515.) *Paris*, 1845

Remarques à l'occasion d'une communication de M. Louyet sur l'emploi de la lumière produite par la pile pour l'éclairage des mines. 4to. (*Comptes Rendus*, xxii. 225.) *Paris*, 1846

**Boussland.** (*Vide* Humboldt and Boussland.)

**Bouvier,** de Jodoigne. Extrait d'une Lettre sur la substitution de la Pile de Volta au briquet physique. 8vo. (*Journal de Van Mons*, No. xl. p. 237.) *Bruxelles*

Expériences sur le remplacement des corps humides par une couche mince d'air dans la pile de Volta. 8vo. (*Journal de Van Mons*, No. xii. p. 300.) *Bruxelles*

† **Bowditch,** N. An Estimate of the height, direction, velocity, and magnitude of the Meteor that exploded over Weston, in Connecticut, Dec. 14, 1807. 4to. 24 pp. (*Mem. Amer. Acad.* old series, iii. part ii. p. 213.) *Cambridge, U.S.* 1815

† On the Variation of the Magnetic Needle. 4to. 7 pp. (*Mem. Amer. Acad.* old series, iii. part ii. p. 337.) *Cambridge, U.S.* 1815

† On the Method of computing the Dip of the Magnetic Needle in different latitudes, according to the theory of Biot. 4to. 5 pp. (*Mem. Amer. Acad.* old series, iv. part i. p. 57.) *Cambridge, U.S.* 1818

† On a Mistake which exists in the calculation of M. Poisson relative to the distribution of the electric matter upon the surfaces of two globes, in vol. xii. of the Mémoires de la Classe des Sciences Mathématiques et Physiques de l'Instit. Impérial de France. 4to. 2 pp. (*Mem. Amer. Acad.* old series, iv. part i. p. 307.) *Cambridge, U.S.* 1818

† On the Meteor which passed over Wilmington, in the state of Delaware Nov. 21, 1819. 4to. 11 pp. (*Mem. Amer. Acad.* old series, iv. part i. p. 295.) *Cambridge, U.S.* 1818

*Vide* also Dutrochet and Bowdich.

† **Bowdoin,** Js. Observations upon an hypothesis for solving the phenomena of Light; with incidental Observations, tending to show the heterogeneousness of Light, and of the Electric Fluid, by their intermixture or union with each other. 4to. (*Mem. Amer. Acad.* i. 187.) *Boston*, 1785

**Boyle,** Hon. Robert. *Born January* 25, 1627, *at Lismore, County Cork, Ireland; died December* 30, 1691, *in London.*

New Experiments concerning the relation between Light and Air in Shining Wood and Fish. 4to. (*Phil. Trans.*) *London*, 1667

Some Observations about Shining Fish. 4to. (*Phil. Trans.* 1672.) *London*, 1672

Experiments and Notes about the Mechanical Origin or Production of particular qualities, in several Discourses on a great variety of subjects, and, amongst the rest, of Electricity. 1676

The Aërial Noctiluca; or, some New Phenomena, and a process of a fictitious self-shining substance. 8vo. *London*, 1680

**Boyle**—*continued.*

Experiments and Observations made upon the Icy Noctiluca ; to which is annexed a Chymical Paradox, grounded on new experiments, making it probable that chemical principles are transmutable. 12mo. (*R. S. Cat. of* 1839, p. 297.) *London*, 1681-82

Experimenta et Observationes Physicæ, &c. 1691

† Philosophical Works, abridged by Shaw, ii. 506. 3 vols. small 4to. *London*, 1725

**Bozolus** (Professor, in Roma). On Discharge of the Leyden Jar as the active principle of the Electric Telegraph.

(*Vide Mariani, from a Memorandum given to me by Cavaliere Zantedeschi.*—F. R.) *Roma*, 1767

**Brachet.** *Vide* Becquerel and Brachet.

† **Brachet,** A. Solutions de l'éclairage Electrique produit par les courants de la pile. 8vo. 8 pp. *Paris*, 1858 (?)

† **Brae,** A. E. Electrical Communication in Railway Trains. The causes considered which have hitherto prevented its successful application. 4to. 36 pp. 4 plates *London*, 1865

† **Bragadin** (or Anonymous). Dubbii sull' efficacia de' Conduttori elett. 8vo. 122 pp. 1 plate. *Venezia*, 1795

† Risposta dell' autore dei Dubbii sull' efficacia dei Conduttori, alla giunta al Giornale Astrometeorologico del . . . Toaldo. (No title-page.) 8vo. 31 pp.

† **Brame,** E. Etude sur les Signaux des Chemins de Fer à double voie. Large 8vo. 262 pp. atlas of 18 plates folio. *Paris*, 1867

**Brand.** On Attraction of mixtures of Iron and Gold, Silver, Copper, Lead, &c. by the Magnet, and effect of Antimony. 8vo. (*Abhand. der Schwed. Akad.* xiii. 212.) *Hamburg, n. d.*

**Brande,** W. T. Experiments on the Effects of the Galvanic Current on Albumen. 4to. (*Phil. Trans.* 1809.) *London*, 1809

† On some Electro-chemical Phenomena. 8vo. 7 pp. 1 plate. (*Phil. Mag.* xliv. 124.) *London*, 1814

† Electro-chemical Decomposition of the Vegeto-alkaline Salts. 8vo. (*Phil. Mag. or Annals*, ix. 237.) *London*, 1831

The Dictionary of Science, Literature, and Art. Fourth edition, re-edited by the late W. T. Brande (the author) and George W. Cox, M.A. 3 vols. 8vo. *London*, 1872

**Brande.** (*Vide* Klingenstierna and Brande.)

† **Brandely,** A. Nouveau Traité des manipulations Electro-chimiques appliquées aux arts et à l'industrie. 8vo. 146 pp. 6 plates. *Paris*, 1848

† Die Operationen, Manipulationen und Geräthschaften der Electro-chemie in ihrer Anwendung auf Gold- Silber- und Bronce-arbeiten, Galvanoplastik und andere verwandte Gewerbe. Aus dem Französischen bearbeitet. 8vo. 179 pp. 10 plates.) *Weimar*, 1849

† **Brander,** Georg Friedrich. *Born November* 28, 1713, *at Regensburg; died April* 1, 1783, *at Augsburg.* Beschreibung eines magnetischen Declinatorii und Inclinatorii. 8vo. 72 pp. 2 plates. *Augsburg*, 1779

**Brandes,** Carl W. T. Sternschnuppen Beobachtungen im Aug. 1833 und deren Berechnung. (*Astronomische Nachrichten*, xvii. 1840.) 1840

**Brandes,** Heinrich Wilhelm. *Born July* 27, 1777, *at Groden bei Ritzebüttel; died May* 17, 1834, *at Leipzig.* Ueber Sternschnuppen. 8vo. (*Voight's Mag.* vi. 1803.) *Jena o. Weimar*, 1803

Ueber die Geschwindigkeit, mit der ein vom Mond geworfn. Körper auf der Erde ankommen kann. 8vo. (*Voight's Mag.* v. 1803.) *Jena o. Weimar*, 1803

Ueber Feuerkugeln. 8vo. (*Voight's Mag.* v. 1803.) *Jena o. Weimar*, 1803

Ueber die Abweichung nach Westen bei steilrecht geschossenen Kugeln. 8vo (*Voight's Mag.* ix. 1805.) *Jena o. Weimar*, 1805

Ueber die Oscillationen der Drehwaage bei Coulomb's Versuchen. 8vo. (*Voight's Mag.* xii. 1806.) *Jena o. Weimar*, 1806

**Brandes,** Heinrich Wilhelm—*continued.*

Anleitung zu Sternschnuppen Beobachtungen. 8vo. (*Gilbert's Ann.* lxii. 1819.) *Leipzig*, 1819

Beiträge zur Witterungskunde, &c. *Leipzig*, 1820

Wie die anziehenden und abstossenden elektrischen Kräfte von der Entfernung abhängen. 8vo. (*Schweigger's Journal*, xxxv. 1822.) *Nürnburg*, 1822

Gesetzmässigkeit in der Bewegung der Sternschnuppen. 8vo. (*Poggendorff, Annal.* ii. 1824.) *Leipzig*, 1824

Beobachtungen über die Sternschnuppen, angestellt von mehreren Naturforschern und mit Untersuchungen über die Resultate derselben. 8vo. *Leipzig*, 1825
(*Note.—This is the first vol. of his Unterhaltungen für Freunde der Physik und Astronomie, of which work there are three vols.*)

Gesetzmässigkeit in der Bewegung der Sternschnuppen. 8vo. (*Poggendorff's Ann.* vi. 1826.) *Leipzig*, 1826

† Ueber Sternschnuppen. 8vo. (*Gilbert's Ann.* vi. viii. xiv. xviii. xxxvii. xlii. xlvii. lviii. lxii. lxxiii. lxxv.) *Leipzig*

† **Brandes,** R. Examination of a Gelatinous Substance found in a damp meadow; as a contribution to the knowledge of Meteors called Shooting Stars. 8vo. 7 pp. (*Schweigger's Jahrbuch der Chem. N. R.* xix. 389. *Phil. Mag. or Annals*, iii. 271.) *London*, 1828

† **Branville,** P. de. Mémoire sur la pose des Cables sous-marins et sur les opérations préliminaires qui s'y rattachent. 8vo. 32 pp. (*Ext. des Mém. de la Soc. des Ingén. Civils.*) *Paris*, 1858

(*Vide* also Balestrini.)

**Brard,** Cyprian Prosper. *Born November* 21, 1788, *at l'Aigle, dép. Orne; died November* 28, 1838.

Note sur une masse de Fer météorique. (*Bordeaux Acad. Sciences* 1829, p. 39.) 1829

† **Brasack,** F. Das Luftspectrum: eine prismatische Untersuchung des zwischen Platina-Elektroden überschlagenden elektrischen Funkens. 4to. 42 pp. 1 plate. (*Aus der Abhandlung der Natur. Gesellschaft zu Halle*, x. *besonders abgedruckt.*) *Halle*, 1866

**Brasseur,** A. J. Enseignement de la vraie doctrine du Magnétisme. Les principes expliqués d'après les effets. Mémoire adressé à l'Académie des Sciences. 12mo. 14 pp. *Paris*, 1860

**Braun,** C. J. H. E. Ueber das Nordlicht. *Nürnberg*, 1858

**Braun,** Josias Adam. *Born* 1712, *at Assche, südl. Brab.; died October* 3, 1768, *at St. Petersburg.*

Observationes Meteorologicæ factæ Petropoli An. 1755 et consectaria. 4to. (*Novi Comment. Acad. Petrop.* vii. 388.) (*Vide Van Swinden, Receuil*, iii. 125, *on Atmospherico-Electrical Influence on the Needle.*) *Petropoli*

† **Braun,** J. S. Ueber die Anwendung des Lichts und der Elektricität in der Telegraphie, und der Construction electrischer Telegraphen. 4to. 38 pp. *Altenburg*, 1849

† **Bravais,** Auguste. *Born August* 28, 1811, *at Annonay, dép. Ardèche.*

Sur les Aurores Boréales vues à Bossekop et á Jupvig en 1838 et 1839 pendant le voyage de la Commission . . . du Nord. 8vo. 119 pp. 2 plates. (*Ext. des Voyages en Scandinavie, en Laponie, &c. Division, Aurores Boréales.*) (*Vide Gaimard.*) *Paris*, 1846

† Sur les variations de l'intensité magnétique horizontale observés à Bossekop en 1838 et 1839 pendant le voyage de la Commission Scientifique du Nord. 8vo. 60 pp. 1 plate. (*Ext. de Voyage en Scandinavie, &c. Division Magnétisme terrestre.*) *Paris*, 1847

† Historique des hypothéses faites sur la nature et la cause des Aurores Boréales. 8vo. 30 pp. (*Ext. des Voyages en Scandinavie, &c. Division Magnétisme terrestre*, tom. iii.) (*Vide Gaimard.*) *Paris*, 1856

**Bravi.** Sulla cagione dei venti irregolari ; con Appendice. *Bergamo*, 1831

**Breda,** Jacob van. Verhandeling over de Electriciteit van den Dampkring. (*Verhand. Maatsch. Harlem*, iv. 1788, *gekrönt von dieser Gesellschaft.*) *Haarlem*, 1788

Proewen genomen med twee elektrophores van verschillende soort, om de outekken met welke doorgans de meeste elektriciteit kon de verwekt worden. (*Allgemeene Vaderlandsche Letteroefeningen.*) *Haarlem*, 1799

**Bredenberg,** C. G. Bemerkungen vom rechten Gebrauche des Compasses, bey Aufsuchung der Eisenerze. 8vo. 2 pp. (*K. Schwed. Akad. Abhand.* xxii. 74.) *Hamb. v. Leipzig*, 1760

† **Breguet** et **Betancourt.** Nouveau Télégraphe. (*Vide* Lagrange, Laplace, &c. Rapport.)

**Breguet,** Louis François Clément. *Born December* 22, 1804, *at Paris.*

Note sur un Appareil destiné à mesurer la vitesse d'un projectile dans différents points de sa trajectoire. 4to. (*Comptes Rendus*, xx. 157.) *Paris*, 1845

Remarques sur un passage qui se rapporte à la Communication (sur un appareil) dans une Note de M. Wheatstone sur le Chronoscope électromagnétique. 4to. (*Comptes Rendus*, xx. 1712.)

*Note.*—Moigno says *Séance de l'Acad. du* 9 Juin, 1845. *Paris*, 1845

† Sur la Télégraphie Electrique. 4to. (*Comptes Rendus*, xxi. 1119.) *Paris*, 1845

Expériences faites au Télégraphe Electrique de Rouen. 4to. (*Comptes Rendus*, xxii. 743.) *Paris*, 1846

Remarques sur une modification dans la Construction des Télégraphes Electriques, recemment proposée par M. Dujardin. 4to. (*Comptes Rendus*, xxiii. 880.) *Paris*, 1846

Remarques à l'occasion d'une réclamation de priorité élevée par M. Morse concernant les Télégraphes Electriques. 4to. (*Comptes Rendus*, xxiii. 937.) *Paris*, 1846

Appareil Electromagnétique pour le Télégraphe de Saint Germain. 4to. (*Comptes Rendus*, xxiii. 1082.) *Paris*, 1846

De l'induction par différents Métaux. 4to. (*Comptes Rendus*, xxiii. 1155.) *Paris*, 1846

Moniteur Electrique pour les Chemins de Fer. 4to. (*Comptes Rendus*, xxiv. 428.) *Paris*, 1847

Sur un accident arrivé au télégraphe de Saint Germain. 4to. (*Comptes Rendus*, xxiv. 980.) *Paris*, 1847

Appareils destinés à indiquer la vitesse, à chaque instant, du parcours d'un convoi sur Chemin de Fer ; et la durée du séjour dans les stations. 4to. (*Comptes Rendus*, xxix. 740.) *Paris*, 1849

Réclamation de priorité au sujet des Chronomètres à pointage de M. Abm. Louis Breguet. 4to. (*Comptes Rendus*, xxx. 206.) *Paris*, 1850

Manuel de Télégraphie Electrique. 1st edition. 12mo. *Paris*

Manuel de Télégraphie Electrique à l'usage des employés des Chemins de Fer. 12mo. *Paris*, 1851

Sur un Télégraphe Electrique mobile. 4to. (*Comptes Rendus*, xxxiv.) *Paris*, 1852

Sur les Télégraphes Electriques. 4to. (*Comptes Rendus*, xxxiv.) *Paris*, 1852

† Manuel de Télégraphie Electrique, 2nd edition. 12mo. 2 plates. *Paris*, 1853

Manuel de Telegrafia Electrica para el uso de los empleados en los caminos de hierro. Edicion Española, publicada por D. Balbino Cortés. 4to. 88 pp. 1 plate. *Madrid*, 1855

† Manuel de Télégraphie Electrique à l'usage des employés des Chemins de Fer. Revue et augmentée. 3rd edition. 12mo. 107 pp. 3 plates, and cuts. *Paris*, 1856

† Manuel de Télégraphie Électrique. Quatrième édition, revue, corrigée, et augmentée. 12mo. 252 pp. 4 plates. *Paris*, 1862

**Breguet**—*continued.*

Nouveau Transformateur. (*Vide* Du Moncel.)

† Télégraphie domestique. Instruction sur la pose . . . des Sonnettes électriques. 12mo. 61 pp. *Paris*, 1865

(*Vide* also Anon. Electric Telegraph, 1865.)

(*Vide* also Masson and Breguet fils.)

† **Breguet et Séré** (V. de) Télégraphe électrique, son avenir. Poste aux lettres électriques, Journaux électriques, suivi d'un aperçu theorique de la télégraphie. 8vo. 75 pp. *Paris*, 1849

**Breitinger,** David, Sen. *Born Nov.* 17, 1737, *at Schönholzersweyler, Thurgau; died Jan.* 30, 1817, *at Zurich.*

Reflexionen ob es wohl gerathen wäre, Strahlenableiter in unserer Stadt Zürich einzuführen. *Zurich*, 1776

Nachricht über das Einschlagen des Blitzes in einen Wetter-ableiter, nebst Berichtigung einiger Begriffe über die Wirkung der Ableiter. *Zurich*, 1786

† Ragguaglio d'un Fulmine caduto in un Conduttore. 4to. 3 pp. (*Opuscoli Scelti*, ix. 210.) *Milano*, 1786

Instruction für diejenigen, welche sich mit der Verfertigung und Visitation der Blitzableiter befassen. *Zurich*, 1825

Instruction über Blitzableiter im Canton Zürich. 4to. *Zurich*, 1830

† **Breintnall,** Jos. Notices of some Meteors observed at Philadelphia, extracted out of a Letter from him to P. Collinson, dated Philadelphia, May 9, 1738. 4to. 2 pp. (*Phil. Trans.* xli. 359.) *London*, 1739-41

**Bremond,** François de. *Born Sept.* 14, 1713, *at Paris; died March* 21, 1742, *at Paris.*

† Extract of a Letter from De Bremond to Mortimer, concerning a File rendered magnetical by Lightning. Translated from the French by T. S. Dated Paris June 4, 1740. 4to. 3 pp. (*Phil. Trans.* xli. 614.) *London*, 1739-41

Expériences Physico Mécaniques sur différens Sujets, et principalement sur la Lumière et l'Électricité, produites par le frottement des Corps. Traduites de l'Anglais de M. Hawksbee par feu M. de Bremond, de l'Acad. Royale des Sciences. Revues et mises au jour, avec un Discours préliminaire, des Remarques et des Notes, par M. Demarest. 2 vols. 8vo. *Paris*, 1754

† **Brenner.** Weitere Mittheilungen zur Elektrootiatrik. Separat-Abdruck aus der Petersb. med. Zeitschrift. 4to. 26 pp. *Petersburg*, 1863

† Zur Elektro-physiologie und Elektro-pathologie des Nervus acusticus. Separat-Abdruck aus der Petersb. medische Zeitschrift. 4to. 11 pp. *Petersburg*, 1863

† **Brenner,** R. Untersuchungen und Beobachtungen auf dem Gebiete der Elektrotherapie. 2 vols. 8vo. *Leipzig*, 1868-9

† **Brenta,** L. Fenomeni della visione . . . Descrizione di Pratici Esperimenti comprovanti la Forza attraente e respingente Elettro-magnetica entro l'occhio . . . 8vo. 39 pp. 3 plates. *Milano*, 1838

† Elettro-magneto-tipia . . . 8vo. 91 pp. 1 plate and portrait. *Milano*, 1840

**Brera,** V. L. Giornale di Medicina pratica, compilato da V. L. Brera. 12 vols. 8vo. (*Vide* also Brugnatelli and Brera.) *Padova*, 1812-17

**Brescia Academy and Athenæum.** (*Vide* Commentarii dell' Accad. . . . del Dipartimento, &c.)

**Breslau Academy.** Miscellanea curiosa, seu Ephemerides Medico-physicæ Academiæ Naturæ Curiosorum. 24 vols, 4to. *Norimb.* 1670-1706

Ephemerides Academiæ Cæs. Naturæ curiosorum, &c. 5 vols. 4to. *Norimb.* 1712-22

**Breslau Academy**—*continued.*

Acta Physico-medica Acad. Cæs. Leopoldino-Carolinæ Nat. Curios. 10 vols. 4to. *Norimb.* 1727-54

Nova Acta Physico-medica Acad. Cæs. Leopoldino-Carolinæ Nat. Curios. 8 vols. 4to. *Norimb.* 1754-91

† Verhandlungen der Leopoldino-Carolinæ Academiæ d. Naturforcher. 1 vol. 1818—*continued.*

**Bressy,** Joseph. Essai sur l'Electricité de l'Eau. 8vo. 178 pp. 2 plates. *Paris*, 1797

**Breton.** Nouvel Appareil Electro-magnétique. 4to. (*Comptes Rendus*, viii. 499, and ix. 242.) *Paris*, 1839

**Breton Frères.** Notice sur quelques perfectionnements apportés à un Appareil Electrique destiné à l'usage des Médecins. 4to. (*Comptes Rendus*, xviii. 527.) *Paris*, 1844

† **Breton et Beau de Rochas.** Théorie mécanique des Télégraphes sous-marins. Recherches sur les conditions de leur établissement. 8vo. 72 pp. 2 plates (*Ext. des Annales Télégraphiques*, Sept. et Oct. 1859.) *Paris*, 1859

† **Brett,** J. W. On the Origin and Progress of the Oceanic Telegraph, with a few brief Facts and Opinions of the Press. 8vo. 104 pp. *London*, 1858

(*Vide* also Patents.)

† **Brett and Little.** Compendium of the Improvements effected in Electric Telegraphs by Messrs. Brett and Little, with a description of their patent Electro-telegraphic Converser. . . 8vo. 64 pp. illustrated. *London*, 1847

**Brettes.** (*Vide* Martin de Brettes.)

**Brewer and Delaroche.** Essai sur le Galvanisme. Extrait du 8e vol. de la Bibliothèque Germanique Médico-chirurgicale. 8vo. *Paris*, 1802

(*This is their account of Grepengeiser's* "Recherches sur le Galvanisme," *translated from his* "Versuche.")

**Brewster,** Sir David. *Born Dec.* 11, 1781, *at Sedburgh, Roxburghshire, Scotland; died*

The Edinburgh Encyclopædia of Science, Literature, and Art. 18 vols. 4to. 533 plates. *Edinburgh*, 1810-30

† A Treatise on Magnetism, forming an Article in the 7th Edition of the Encyclopædia Britannica. 8vo. 363 pp. *Edinburgh*, 1838

A popular Treatise on Magnetism, from the 7th Edition of the Encyclopædia Britannica. 8vo. 107 illustrations. (*From Latimer Clark's Cat.*) *Edinburgh*, 1851

† On the Optical Phenomena and Crystallisation of Tourmaline, Titanium, and Quartz, within Mica, Amethyst, and Topaz. 4to. 7 pp. 1 plate. (*Faraday's copy.*) (*Trans. Royal Society, Edinburgh*, xx. Part iv.) *Edinburgh*, 1853

† Electricity. Article in the Encyclopædia Britannica, vol. viii. p. 523. 4to. 8th edition. 104 pp. 9 plates. *Edinburgh*, 1855

† On the Life Boat, the Lightning Conductor, and the Light-house. 8vo. (*North British Review*, xxxii. 492. November, 1859.) 1859

† Galvanism. (*Edinburgh Encyclopædia*, vol. iv. p. 173.)

† Article on Electricity. 4to. 7th edition. 100 pp. 8 plates. (*Encyclopædia Britannica*, viii. 565.) *London.*

(*This article is signed N. N. N.*)

† Article on Voltaic Electricity. 4to. 7th edition. 37 pp. (cuts.) (*Encyclopædia Britannica*, vol. xxi.) *London*

† Photographic Portrait of Sir David Brewster.

*Vide* Edinburgh Philosophical Journal.
„ Edinburgh Journal of Science. New Series.
„ London and Edinburgh Philosophical Magazine.
„ Ferguson (James) and Brewster.
„ Robison and Brewster.

**Brézé, De.** (Il Marchese.) Description de trois Machines Physico-chimiques. About 1784

(*The editors of the* "Opuscoli" *give a description of two of the machines, and refer to this book. One is an eudiometer, acting by the electric spark, exactly in Davy's manner.*)

**Briand.** L'Electricité appliquée au Traitement curatif des Névralgies, des Rhumatismes, des Paralysies, &c. 12mo. 130 and 6 pp. *Paris et Rennes*, 1855

**Brierre de Boismont.** Diagn. Untersuchungen verschiedener Arten der allgemeinen Lähmung mittelst der localisirten Galvanisation. (*Annal Med. Phys.* 1850.) 1850

† **Briggs,** C. F., and **Meverick.** The Story of the Telegraph and History of the great Atlantic Cable. 8vo. 255 pp. Portrait and map. *New York*, 1858

† **Brigoli.** Lettera sopra la Macchina Elettrica ad un amico suo. Da Venezia li 25 Novembre, 1747. 4to. 8 pp. *Verona*, 1748

**Brilhac.** A Plate Electrical Machine. 2 plates. (Noben einander stehend.)

**Brisbane,** Sir Thos. Macdougal. *Born July* 23, 1773, *at Brisbane House, Ayrshire; died Jan.* 27, 1860, *at Brisbane House, Ayrshire.*

*Vide* Makerstown Observations.

**Brisbane,** Sir Thomas Macdougall B. *Born* 1770.

**Britannica, Encyclopædia.** *Vide* Anons. Elect. 1823.

† **British Association Council.** Report on the existing Relations between the Kew Committee and the British Association. 8vo. 35 pp. *London*, 1870

**British Association for the Advancement of Science.** Report of the 1st and 2nd Meetings of the Association, at York in 1831, and at Oxford in 1832, including its Proceedings, Recommendations, and Transactions. 8vo. *London*, 1833

Report of the 3rd Meeting at Cambridge in 1833. 8vo. *London*, 1834
„ 4th Meeting at Edinburgh in 1834. 8vo. *London*, 1835
„ 5th Meeting at Dublin in 1835. 8vo. *London*, 1836
„ 6th Meeting at Bristol in 1836. 8vo. *London*, 1837
„ 7th Meeting at Liverpool in 1837. 8vo. *London*, 1838
„ 8th Meeting at Newcastle in 1838. 8vo. *London*
„ 9th Meeting at Birmingham in 1839. 8vo. *London*
„ 10th Meeting at Glasgow in 1840. 8vo. *London*
„ 11th Meeting at Plymouth in 1841. 8vo. *London*
„ 12th Meeting at Manchester in 1842. 8vo. *London*
„ 13th Meeting at Cork in 1843. 8vo. *London*
„ 14th Meeting at York in 1844. 8vo. *London*
„ 15th Meeting at Cambridge in 1845. 8vo. *London*
„ 16th Meeting at Southampton in 1846. 8vo. *London*
„ 17th Meeting at Oxford in 1847. 8vo. *London*
„ 18th Meeting at Swansea in 1848. 8vo. *London*
„ 19th Meeting at Birmingham in 1849. 8vo. *London*
„ 20th Meeting at Edinburgh in 1850. 8vo. *London*
„ 21st Meeting at Ipswich in 1851. 8vo. *London*
„ 22nd Meeting at Belfast in 1852. 8vo. *London*
„ 23rd Meeting at Hull in 1853. 8vo. *London*
„ 24th Meeting at Liverpool in 1854. 8vo. *London*
„ 25th Meeting at Glasgow in 1855. 8vo. *London*
„ 26th Meeting at Cheltenham in 1856. 8vo. *London*
„ 27th Meeting at Dublin in 1857. 8vo. *London*

**British Association**—*continued.*

Report of the 28th Meeting at Leeds in 1858. 8vo. *London*, 1859
„ 29th Meeting at Aberdeen in 1859. 8vo. *London*, 1860
„ 30th Meeting at Oxford in 1860. 8vo. *London*, 1861
„ 31st Meeting at Manchester in 1861. 8vo. *London*, 1862

† Minutes of Council. 8vo. *London*, 1841-53

Proceedings connected with the Magnetical and Meteorological Conference held at Cambridge in June, 1845. 8vo. *London*, 1845

**British Cyclopædia.** Arts and Sciences. 2 vols. royal 8vo. *London*, 1838

**Brivazac.** *Vide* Beaumont-Brivazac.

† **Brix,** P. W. Die Stadt-Telegraphen-Leitung in Berlin, zwichen der Centralstation im Königlichen Postgebäude und den von den funf Berliner Bahnhöfen abgehenden Telegraphen-Linien. 4to. 16 pp. 11 plates. (*Besonderer Abdruck aus der Zeitschrift des Deutsch-Oesterreichischen Telegraphen-Vereins.*) *Berlin*, 1857

Zeitschrift des Deutsch-Oesterreichischen Telegraphen-Vereins. Redacteur, Von Dr. P. Wilde Brix. 16 Jahrg. 1869. 4to. 12 Hefte. *Berlin*, 1869

Annalen der Telegraphie. Herausgegeben, und redigert von Dr. P. W. Brix im Anschluss an die Zeitschrift des Deutsch-Oesterreichen Telegraphen-Vereins. 4to. *Berlin*, 1870

† **Brocklesby,** T. Elements of Meteorology for Schools, &c. 12mo. 2nd edition. 240 pp. cuts. Electricity, p. 131. *New York*, 1849

† **Brook,** A. Miscellaneous Experiments and Remarks on Electricity, the Air-pump, and the Barometer, with the description of an Electrometer of a new construction. *Norwich*, 1789

Vermischte Erfahrungen über die Electricität, Luftpumpe und Barometer, aus dem Englischen von Kuhn. 8vo. *Leipzig*, 1790

† **Brooke,** C. An Account of the remarkable Magnetic Disturbance which continued from the 22d to the 25th October, 1847. (*Phil. Mag. for January*, 1848.) (*Faraday's copy.*) *London*, 1848

* † On the Automatic Registration of Magnetometers by Photography. No. iii. Received June 21, read June 21, 1849. 4to. 9 pp. (*Phil. Trans.* part i., *for* 1850.) *London*, 1850

**Brougham,** Lord. Tracts, Mathematical and Physical. Small vo. 1860

**Brougham, Brewster,** and Others. Natural Philosophy. 4 vols. 8vo. (*Library of Useful Knowledge.*) *London*, 1835-40

† **Broun,** J. A. On the combined Motions of the Magnetic Needle, and on the Aurora Borealis. 8vo. 16 pp. 2 plates, (*Proceedings of the Royal Society of Edinburgh*, vol. ii. No. 39.) (*Faraday's copy.*) *Edinburgh*

† Results of the Makerstown Observations. No. 1. On the relation of the Variations of the horizontal Intensity of the Earth's Magnetism to the solar and lunar periods. 4to. 11 pp. 2 plates. (*Proceedings of the Royal Society of Edinburgh*, xvi. part ii.) *Edinburgh*, 1846

† General Results of the Observations in Magnetism, &c. at Makerstown, in the Observatory of Sir T. Brisbane. 4to. 86 pp. 9 plates. (*Transactions of the Royal Society of Edinburgh*, ix, part ii.) *Edinburgh*, 1850

† Report to Sir T. Brisbane on the completion of the publication of the Observations at Makerstown. 4to. 16 pp. *Edinburgh*, 1850

† On the Dust Figures observed on Plate Glass. (*Phil. Mag. for January*, 1851.) *London*, 1851

† On the combined Motions of the Magnetic Needle, and on the Aurora Borealis. 8vo. (*Proceedings of the Royal Society of Edinburgh*, ii. No. 39.) *Edinburgh*

† **Browne,** G. H. Of the Trembling of the Nerves of a Frog after Death. Experiments by M. Du Verney in 1700. 8vo. (*Phil. Mag.* xviii. 285.) *London*, 1804

(*Note.—He found this article in the Transactions of the Academy of Sciences at Paris for* 1700. *Reference is made to Gardiner in his Observations on the Animal Economy; to Luigi and Klagel; and to Gardini (this last on Lizardi), The above experiments by Verney are said to be the most remote instance of effects now called Galvanic.*)

† **Browne,** Peter A. An Essay on solid Meteors and Aërolites, or meteoric stones. 8vo. 38 pp. *Philadelphia*, 1844

† **Browning,** J. Part of a Letter from J. Browning to H. Baker, dated December 11, 1746, concerning the effect of Electricity on Vegetables. Read January 22, 1746-47. 4to. 3 pp. (*Phil. Trans.* xliv. 373.) *London*, 1746-47

**Brown-Sequard,** E. Die Lebensenergie herabsetzende Wirkung des electrischen Stromes. Versuche. (*Gaz. Méd. de Paris*, 1849, pp. 881-999) *Paris*, 1849

Sur les Résultats de la Section et de la Galvanisation du Nerf grand sympathique au Cou. 8vo. (*Ext. de la Gazette Médicale.*) *Paris*, 1854

† **Brück,** R. Electricité ou Magnétisme du Globe terrestre. 8vo. 298 pp. *Bruxelles*, 1851

† Electricité ou Magnétisme du Globe terrestre. Extrait des études sur les principes des Sciences physiques. Faits magnétiques proprement dits : variations de la déclinaison, de l'inclinaison, et des forces magnétiques dans le barreau aimanté librement suspendu, et causes de ces variations. Partie ii. 1 vol. 8vo. *Bruxelles*, 1855

† Electricité ou Magnétisme du Globe terrestre. Extrait d'études des Sciences physiques. Faits magnétiques proprement dits. Electricité atmosphèrique, Aurores, &c. Partie ii. vol. ii. 8vo. 542 pp. (This is the title in this copy, but in the preface, &c. it is called vol. iii.) *Bruxelles*, 1858

† L'Origine des Etoiles filantes. 8vo. 155 pp. 11 tables. *Bruxelles*, 1869

† Etude sur la Physique du Globe. Phénomènes atmosphériques. 8vo. 150 pp. 2 plates. *Bruxelles*, 1869

**Brucke,** E. Manifeste du Magnétisme du Globe et de l'humanité, ou résumé succinct du magnétisme terrestre et de son influence sur les destinées humaines. 8vo. (*Librairie Internationale.*) *Paris*, 1866

† Ueber den Einfluss der Strömesdauer auf die elektrische Erregung der Muskeln. (Vorgelegt 31 Oct. 1867.) 8vo. 9 pp. (*Sitzb. der Königl. Akad. der Wissenschaften*, lvi. Oct. Heft. 1867.) *Wien*, 1867

† Ueber das Verhalten entnervter Muskeln gegen discontinuirliche elektrische Ströme. 8vo. 4 pp. (*Sitzb. der Königl. Akad. der Wissenschaften*, lviii. 2 Abth. Juni Heft, 1868.) *Wien*, 1868

† Ueber die Reizung der Bewegungsnerven durch elektrische Ströme. 8vo. 16 pp. (*Sitzb. der Königl. Akad. der Wissenschaften*, 2 Abth. Oct. Heft, 1868.) *Wien*, 1868

**Bruennow,** F. De attractione moleculari. 4to. *Berolini*, 1843

**Brugmans,** Anton. *Born October* 22, 1732, *at Hantum, Friesland; died April* 27 1789, *at Gröningen.* (*Poggendorff*, i. 316.)

Tentamina Philosophica de materia magnetica ejusque actione in ferrum et magnetem. 4to. *Francquerœ*, 1765

Nieuwe manier om de magnetische Kragt der lichaamen te onderzoeken. (*Vaderlandsche Letteroefeninqen*, 1775 *et* 1776.) 1775-76

† **Magnetismus,** seu de affinitatibus magneticis. Observationes academicæ. 4to. 133 pp. 1 plate.

*Note.—Van Swinden, Recueil* i. 34, *quotes the title Magnetismus sive de Attractione magnetica Observationes.* 4to. *Gronigæ*, 1777. *Lugd., Bat.* 1778

**Brugmans**—*continued.*

Beobachtungen über die Verwandschaften des Magnets, aus dem Lateinischen übersetzt und mit einigen Anmerkungen vermehrt, von Eschenbach. 8vo. 167 pp. *Leipzig*, 1781

† Philosophische Versuche über die magnetische Materie und deren Wirkung in Eisen und Magnet, aus dem Lateinischen des Brugmans, übersetzt und mit Anmerkungen und Zusätzen des Verfassers vermehrt. Herausgegeben von C. G. Eschenbach. 8vo. 309 pp. 6 plates. (*Volta's copy.*) *Leipzig*, 1784

**Brugnatelli,** Gaspare (Necrologia di.) *Born April* 25, 1795, *at Pavia; died October* 31, 1852, *at Milan. Son of the celebrated Luigi Valentino Brugnatelli. Joined his father in editing the Giornale di Fisica, and joined Configliachi in the editorship after his death. Was at one time one of the directors of the Biblioteca Italiana—viz. from* 1831 *to* 1840 *inclusive,* vols. lxi. *to* xcix. (*Giornale I. R. Ist. Lomb.* new series, ix. 489. In 4to. 1856.)

† Dell' arte Galvano-plastica. 8vo. 11 pp. (*Biblio. Ital.* xcviii. 187.) *Milano*, 1840

† Metodo originale Italiano di Elettro-doratura esposta da G. Grimelli. Manuale dell' arte d'indorare e d'inargentare coi metodi elettro-chimici . . . di F. Selmi. 8vo. 8 pp. (*Giornale I. R. Ist. Lomb.* x. 266.) *Milano*, 1845

† Sui trasporti Elettrici, e le elettriche teorie di. 8vo. 2 pp. (*Giornale I. R. Ist. Lomb.* xii. 6.) *Milano*, 1845

**Brugnatelli** (G.), **Brunacci, e Configliachi.** Giornale di Fisica, Chimica, Storia-naturale, Medicina, ed Arti. Compilato da Gaspare Brugnatelli. Decade seconda. *Pavia*, 1818-27

**Brugnatelli,** Luigi Valentino. *Born February* 14, 1761, *at Pavia; died October* 24, 1818, *at Pavia*

† Biblioteca fisica d'Europa, ossia Raccolta di Osservazioni sopra la fisica, matematica, chimica, storia naturale, medicina, ed arti. 22 vols. 8vo. (*The Electrical articles, &c. are in the Library.*) *Pavia*, 1788-91

† Annali di Chimica, ovvero, Raccolta di Memorie sulle Scienze, Arti, e Manifatture ad essa relative. 22 vols. 8vo. (*The Electrical articles are in the Library.*) *Pavia*, 1790-1805

† Giornale Fisico-medico, ossia Raccolta di Osservazioni sopra la fisica, matematica, chimica, storia naturale, medicina, chirurgia, arti, e agricoltura. Per servire di seguito alla Biblioteca fisica d'Europa. 20 vols. 8vo. (*The Electrical articles are in the Library.*) *Pavia*, 1792-96

Extrait d'une Lettre (de B.) sur la non-existence de la pile à charger. 8vo. (*Journal de Chim. de Van Mons*, xvi. 132.) *Bruxelles*

Expériences et Observations de Brugnatelli relatives à l'action de la pile sur diverses humeurs animales. 8vo. (*Journal de Chim. de Van Mons.* x. 114.) *Bruxelles*

† Memorie sull' elettricità animale inserite nel Giornale Fisico-medico del Sig. Brugnatelli. 8vo. 147 pp. (*All the Electrical Articles of this work are in the Library.*) *Pavia*, 1792

† Articolo di lettera al Valli sull' elettricità animale. 8vo. 2 pp. (*Annali di Chimica di Brugnatelli*, vii. 239.) *Pavia*, 1795

Osservazioni chimiche sopra l'ossi-elettrico. 8vo. 17 pp. 1 plate. (*Annali di Chimica di Brugnatelli*, xviii. 136.) *Pavia*, 1800

(*Note.—This contains his account of Bellissima cristallizzazione ottenuta sopra diversi metalli coll' ossi elettrico. He announces, in fact, the reduction, the transport, the precipitation, &c. of the metals dissolved on the negative pole of Volta's Electrometer. Cossa* (*p.* 10, *note*) *says that this Memoir was translated and printed in Van Mons' Journal*, vol. i. p. 1.)

On Electro-gilding. 8vo. (*Vide* his Elementi di Chimica, 4th edition, 1810.) (*Ann. de Chim.* xviii. 136; *and also in Van Mons' Journal de Chim.* i. 1.) *Paris*, 1806

**Brugnatelli,** Luigi—*continued.*

Extrait d'une Lettre de Brugnatelli sur des expériences qu'on prétend être contraires à l'identité des fluides électriques et galvaniques, datée de Paris du 3 Brumaire, an 10. (*Journal de Chim. de Van Mons*, ii. 216.) *Bruxelles*, 1802

(*Note.—This is probably the proper title. It contains some experiments of Gautherot, made at the third meeting of the Commission of the Institute on Volta's "Identité" . . . held at "le cabinet de M. Charles."*)

Extrait d'une Lettre sur les Expériences prétenduement contraires à l'identité des Fluides Electrique et Galvanique. 8vo. (*Journal de Chim. de Van Mons*, i. 216.) *Bruxelles*

Extrait d'une Lettre. 1. Expériences Electro-galvaniques proposées par le premier Consul Bonaparte. 2. Construction d'une grande pile à Chaudrons. 8vo. (*Journal de Chim. de Van Mons*, i. 325.) *Bruxelles*

Extrait d'une Lettre contenant: 1. Vapeur vésiculaire. 2. Décomposition de l'Alcohol et de l'Oxiseptonique par la pile de Volta. 3. Analyse du Mercure fulminant. 8vo. (*Journal de Chim. de Van Mons* ii. 106.) *Bruxelles*

Extrait d'une Lettre contenant: 1. Propriété fulminante de l'acide nitrique. 2. Action de la pile sur diverses humeurs animales. 3. Conversion des rondelles de drap impregnées d'eau salée en savon de laine par l'action de la pile. 8vo. (*Journal de Van Mons*, iv. 143.) *Bruxelles*

Extrait d'une Lettre: 1. Sur une correction faite à la pile portative de Volta. 2. Sur une réforme de la nomenclature chimique. 8vo. (*Journal de Chim. de Van Mons*, i. 24.) *Bruxelles*, 1802

Extrait d'une Lettre contenant: 1. Nouvelles expériences galvaniques. 2. Découverte d'un sulfure d'antimoine oxidé rouge, sublimé. 8vo. (*Journal de Chim. de Van Mons*, i. 101.) *Bruxelles*, 1802

† Lettera al Sig. L. Targioni contenente un' Esposizione succinta delle principali scoperte o interessanti Osservazioni fatte nel corrente anno 1802, o poco prima. 8vo. 30 pp. (*Annali di Chim. di Brugnatelli*, xxi. 3.) *Pavia*, 1802

† Descrizione del Piliere del Volta, comunicata dal Brugnatelli al Van Mons. 8vo. 12 pp. 1 plate. (*Annali di Chim. di Brugnatelli*, xix. 77.) *Pavia*, 1802

† Notizie Letterarie: 4. Sul galvanismo. 5. Uso medico del piliere di Volta. 7. Piliere composto di un solo metallo, proposto da Davy. 9. Magnetismo del cobalto e del nikel, di Sage. 8vo. 8 pp. (*Annali di Chim. di Brugnatelli*, xix. 274, 277, 280, 281.) *Pavia*, 1802

† Fenomeni osservati colla Pila Voltiana. 8vo. 6 pp. (*Annali di Chim. di Brugnatelli*, xxi. 143.) *Pavia*, 1802

(*Note.—In this article, at p.* 148, *he says: "La maniera più spedita di vedere ripristinati alcuni termossidi metallici in soluzione, coll' azione della pila, si è per mezzo degli ammoniuro-metallici." This memoir was reproduced in Van Mons's Journal de Chim.* lxxvi.)

† Elementi di Chimica, &c. ii. *Pavia*, 1803

(The 4th edition, 1810, tom. i. p. 185. Electro-gilding, &c.)

Elementi di Chimica, &c. 2nd edition. 3 vols. 8vo. *Pavia*, 1804

Elementi di Chimica appoggiati alle più recenti Scoperte, Chimiche, e Farmaceutiche. 4 vols. 4to. (Figures.) *Pavia*, 1804

† Notizie delle principali Osservazioni e Scoperte fatte nella Chimica nell' anno 1804. 8vo. 35 pp. (*Annali di Chim. di Brugnatelli*, xxii. 1.) *Pavia*, 1805

(*Note.—He says, at p.* 26 . . . *"abbiamo fatto vedere come l'ammoniuro d'oro possa servire a dorare l'argento per mezzo della pila di Volta." At p.* 16, *Brugnatelli and Volta's Experiment upon Ritter's secondary pile.*)

† On Electro-gilding, headed Galvanism. 8vo. 1 p. *London*, 1805

(*Note.—In a letter to Van Mons, dated in* 1803, *he says: "I have lately gilt, in a complete manner, two large silver medals, by bringing them into communication, by means of a steel wire, with the negative pole of a Voltaic pile, and keeping them, one after the other, immersed in ammoniuret of gold, newly made and well saturated.*) (*Phil. Mag.* xxi. 187.)

**Brugnatelli,** Luigi—*continued.*

† Nuove Scoperte Galvaniche del Ritter, comunicate dal Bernouilli al Van Mons. Esperienze Galvaniche del Medesimo. Osservazioni Chimico-galvaniche dell' Œrsted. 8vo. 17 pp. (*Annali di Chim. di Brugnatelli*, xxii. 77 to 92. Translated, with Notes by B . . ., from *Journal de Chim. de Van Mons*, No. 17.) *Pavia*, 1805

† Nota (di B.) sopra una Pila di sostanze vegetabili. 8vo. 4 pp. (*Annali di Chim. di Brugnatelli*, xxii. 301.) *Pavia*, 1805

† Osservazioni Chimico-galvaniche comunicate all' Istituto Nazionale d'Italia. 8vo. 44 pp. 1 plate. (*Annali di Chim. di Brugnatelli*, xxii. 257.) *Pavia*, 1805

(*Note.—This contains the experiments detailed in his* "Fenomeni Osservati colla Pila," *repeated on a larger scale.*)

† Chemico-Galvanic Observations communicated to the National Institute of Italy. 8vo. 10 pp. (*Phil. Mag.* xxv. 57.) *London*, 1806

Osservazioni sopra l'Identità di alcuni nuovi caratteri del Carbone con quelli dei metalli. 4to. (*Mem. dell' Istit. Naz. Italiano*, tom. i. part ii.p. 291.) *Bologna*, 1806

Maniera di indorare le Medaglie ed i fini pezzi d'Argento col Galvanismo. (*Effemeridi Chim. Mediche di Milano*, 1807. Semestre i. 57.) *Milano*, 1807

Discorso preliminare sulle Osservazioni e sulle Scoperte più importanti fatte nel 1807. 4to. (*Giorn. di Fis. Chim.* &c. i. 4-32.) *Pavia*, 1808

Nota sopra un' Objezione fatta alla Teoria Termossigena, e sopra alcune Vegetazioni Metalliche ottenute col Galvanismo. 4to. (*Giorn. di Fis. Chim.*, &c. i. 28.) *Pavia*, 1808

Singolare Degenerazione del cartone col Galvanismo. 4to. (*Giorn. di Fis. Chim.* &c. i. 146.) *Pavia*, 1808

Sui Conduttori Elettrici applicati alla Pila Voltiana, detti Galvanici. Memoria dei Prof. Brugnatelli e Configliachi. 4to. (*Giorn. di Fis. Chim.* i. 147 e 338.) *Pavia*, 1808

Nota sulla Decomposizione degli Alcali ottenuta dal Davy. 4to. (*Giorn. di Fis. Chim.* &c. i. 164.) *Pavia*, 1808

Trattato elementare di Chimica generale, &c. 8vo. tom. iv. *Pavia*, 1810

Di alcune leghe Metalliche ottenute col Galvanismo. 4to. (*Giorn. di Chim. Fis. e Storia Nat.* ix. 145.) *Pavia*, 1816

*Note.—Cossa says:* "*Questa memoria venne riprodotta per estratto nei seguenti giornali.*"

*Thomson's Annals of Philosophy*, xii. 228. 1817.

*Journal de Pharmacie*, iii. 425. Paris, Set. 1817.

*Giornale di Chimica, Fisica, e Storia Naturale*, xi. 130. Pavia, 1818.

Osservazione di L. Brugnatelli sopra le leghe metalliche che si possono avere col Galvanismo per via umida, per servire di risposta all' Articolo del Sig. G. L., inserito negli *Annales de Chimie*, Fév. 1818. 4to. (*Giornale di Chimica, Fisica, e Storia Naturale*, xi. 130. 2nd decade.) *Pavia*, 1818

Memoirs of the Life of Lewis Brugnatelli. 8vo. 6 pp. (*Phil. Mag.* liii. 321.) *London*, 1819

Elogio del di Bizio. Letto nell' Ateneo di Venezia, 19 Luglio, 1827. *Venezia*, 1832

† Cenni sulla Vita e sugli Scritti di Luigi Valentino Brugnatelli, Prof. di Chimica nell' Università di Pavia, dal 1797 al 1818. Di A. Cossa. 8vo. 32 pp. *Pavia*, 1857

† Portrait of Brugnatelli, by Longhi.

**Brugnatelli, L., e Brera, V. L.** Commentarii Medici. (Opera Periodica.) 8vo. 1796 to 1799

*Note.—Follows the Giornale Fisico-Medico.* "*Continuato dopo la parte* 2 *del tom. i. dal solo Brera.* (*Vide Vita di B. di Cossa, p.* 32.)

**Brugnatelli, L., Brugnatelli, G. Brunacci, and Configliachi.** Giornale di Fisica, Chimica, e Storia Naturale. (Decade prima.) 10 vols. 4to. *Pavia*, 1808-17

(*Note.—Vols.* i. *to* vii. *are by L. Brugnatelli, Vol.* viii. *by L. and G. Brugnatelli, Vols.* ix. *and* x. *by G. Brugnatelli, Brunacci, and Configliachi. This work follows L. Brugnatelli's "Annali di Chimica," &c. For the continuation of this journal, vide Brugnatelli, G., Brunacci, and Configliachi.* (*Seconda decade, &c.*)

**Bruhns,** C. Geschichte und Beschreibung der Leipziger Sternwarte, &c. *Leipzig*, 1861

† Bestimmung der Längendifferenz zwischen Berlin und Wien auf Telegraphischem Wege ausgeführt. Von den Herren Forster und Weiss. Herausgegeben von Dr. C. Bruhns. 4to. 47 pp. (*Publ. der Konig Preuss. geodatis. Instituts.*) *Leipzig*, 1871

Bestimmung der Längendifferenz zwischen Leipzig und Wien. iii. *Leipzig*, 1872

† **Bruhns e Förster.** Bestimmung der Längendifferenz zwischen den Sternwarten zu Berlin und Leipzig, auf Telegraphischem Wege ausgeführt im April, 1864. 4to. 73 pp. *Leipzig*, 1865

**Brunacci.** *Vide* Brugnatelli and others.

**Brunel,** Sir Marc Isambert. *Born April* 25, 1769, *at Hacqueville, Normandy; died December* 12, 1849, *at London.*

† **Brunel and Daniel.** Statement of Facts respecting Cooke and Wheatstone's relative Positions in connection with the Invention of the Electric Telegraph. Dated 27th April. 1 page, folded. *London*, 1841

**Brunet,** J. C. Manuel du Libraire. 3 vols. 8vo. *Paris*, 1810

Manuel du Libraire. 4 vols. 8vo. *Paris*, 1820

Nouvelles Recherches. Supplément. 3 vols. 8vo. *Paris*, 1834

Manuel du Libraire. 5 vols. 8vo. 4th edition. *Paris*, 1844

Manuel du Libraire et de l'Amateur des Livres. 6 vols. 12 parts, royal 8vo. 5th edition. *Paris*, 1860-4

**Brunet,** G. Annuaire des Sociétés savantes. Notice de. 8vo. 1846

† **Bruni,** J. L. Extract of a Letter from J. L. Bruni to H. Baker, concerning the Bologna Bottle. Read Jan. 31, 1744-5. 4to. 2 pp. (*Phil. Trans.* xliii. 272.) *London*, 1744-5

**Brunner,** Carl, jun. ? *Born June* 23, 1823, *at Berne.*

De ratione, quæ inter Fluidorum cohæsionem et Calorem aliasque vires Moleculares intercedit. 4to. Tabula adjecta. *Berolini*, 1846

Elektrische Lichterscheinungen ohne Donner. (*Fror. Not.* ix. x. 152.) 1848

† **Brunner,** C. (Sohn). Untersuchungen über die Cohäsion der Flüssigkeiten. 4to. 44 pp. 2 plates. 1849

(*Note.—He refers to Draper's* (*of New York*) *Theory of Electricity.*)

† **Brunnstrom,** J. A. Nägra thorier for Elektricitet. 8vo. 46 pp. *Lund*, 1864

† **Bruno,** De. Recherches sur la Direction du Fluide Magnétique. 8vo. 8 plates. 206 pp. *Paris*, 1785

† **Bruns,** V. von. Die Galvano-Chirurgie oder die Galvanokaustik und Elektrolysis bei chirurgischen Krankheiten. 8vo. 145 pp. *Tubingen*, 1870

**Brussels Academy.** Mémoire de l'Académie des Sciences et Belles Lettres de Bruxelles. 4to. *Bruxelles*, 1777-88

Nouveaux Mémoires. Idem. 4to. *Bruxelles*, 1820

Mémoire sur les Questions proposées. 4to. 1773 ?

Bulletin de l'Académie des Sciences et Belles Lettres de Bruxelles. 8vo. *Bruxelles*

**Brussels Academy**—*continued.*

Observations Magnétiques et Météorologiques faites à des Epoques déterminées 4to. 5 parts? (*Extrait de l'Acad. Roy. de Bruxelles*, xv. to xix. ?) *Bruxelles*, 1844

† **Bryant**, W. Account of an electrical Eel; or, the Torpedo of Surinam. 4to. 4 pp (*Trans. American Phil. Soc.* ii. 166. Old series.) *Philadelphia*, 1786

**Brydone**, Patrick. *Born* 1741, *at Dumbarton, N.B.; died June* 19, 1818, *at Lennel House, Berwickshire.*

An Instance of the Electric Virtue in the Cure of a Palsy. 4to. (*Phil. Trans* part i. p. 392, 1757, and p. 695.) *London*, 1757

Letter containing an Account of a Fiery Meteor seen on the 10th February, 1772, and also of some new Electrical Experiments. 4to. (*Phil. Trans.* 1773, p. 163.) *London*, 1773

† Osservazioni sull' Elettricità. Lettera ix. 12mo. 16 pp. (*Scelta d' Opuscoli*, x. 71.) *Milano*, 1775

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† **Buccio.** L'uso medico che si può fare dell' elettricità e del galvanismo. 8vo. 5 pp. (*Comment. Acad. Dipartimento del Mella per* 1811, p. 60.) *Brescia*, 1812

† **Buch**, Leopold de. Extract of a Letter from M. Leopold de Buch, of Milan, to Professor Pictet, of Geneva, on the production of Muriatic Acid and Soda by the Galvanic Decomposition of Water. 8vo. 2 pp. (*Phil. Mag.* xxiv. 244.) *London*, 1806

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† **Buchenroder**, W. L. von. An Account of the Earthquakes which occurred at the Cape of Good Hope during the month of December, 1809. Abridged by him. 8vo. 5 pp. (*Phil. Mag. or Annals*, ix. 71.) *London*, 1831

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**Budge.** On Irritation of the Medulla oblongata, and its Influence on the Brain, &c. (*Archiv von Roser und Wunderlich*, 1846.) 1846

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**Buerbaum**, J. Die Elektro-magnetische Telegraphie, mit besonderer Berücksichtigung der ausgeführten Telegraphen-Systeme. 8vo. *Berlin*, 1851

**Buff,** Heinrich. *Born May* 23, 1805, *at Rodelheim, Wetterau.*

Many Articles on Electricity, &c. in *Poggendorff, Ann.* 1829 to 1855.

† Zusammenhang der neuern Elektricitätslehre mit der Contact-theorie. 8vo. *Giessen,* 1842

† Ueber den Einfluss der Zwischenplatten in der Electrischen Säule. 8vo. 8 pp. (*Annal. de Pharm.* xxxii. 1 heft.) *Heidelberg,* 1840

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† Zur Berührungselectricität. 8vo. 4 pp. (*Annal. der Chem. und Pharm.* lxxxiii. 2 heft.) *Heidelberg*

† Ueber die Electrische Beschaffenheit der Flamme. 8vo. 16 pp. (*Annal. der Chem. und Pharm.* lxxx. 1 heft.) (*Faraday's copy.*) *Leipzig*

Letters on the Physics of the Earth, by Dr. Hoffman. 12mo. *London,* 1851

**Buffon,** George Louis Leclerc. *Born Sept.* 7, 1707, *at Montbard, Bourgogne; died April* 16, 1788, *at Paris.* (*Poggendorff,* i. 338.)

Les Epoques de la Nature. 2 vols. (On Earthquakes, 4th Epoch.) *Paris,* 1780

† Traité de l'Aimant et de ses Usages. 4to. 208 pp. and tables. (This is the 5th volume of his *Hist. Nat. des Mineraux,* in 5 vols. 4to.) *Paris,* 1788

**Bugge,** Thomas. *Born Oct.* 12, 1740, *at Copenhagen; died Jan.* 15, 1815, *at Copenhagen.*

Articles in *Dansk. Vid. Selsk.* (*Poggendorff,* i. 339.)

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† **Bulmerincq,** M. C. von. Beiträge zur ärztlichen Behandlung, mittelst des Mineralischen Magnetismus. Mit einer Vorrede von Heinrich Steffens. 8vo. 74 pp. *Berlin,* 1835

**Bunsen,** Jeremias. *Born Dec.* 8, 1688, *at Arolsen; died March* 11, 1752, at *Arolsen.*

Versuch wie die Meteore des Donners und Blitzes, item das Aufsteigen der Dünste, ingleichen des Nordscheins, aus elektrischen Wirkungen herzuleiten und zu erklären sind; u.s.w. *Lemgo,* 1750

Erklärung der elektrischen und magnetischen Kräfte. 8vo. (From *Krunitz,* p. 28; *Nollet, Essai,* 4th edition, p. 222. *Poggendorff,* i. 340, says, "Frankfurt und Leipzig.) *Lemgo,* 1752

**Bunsen,** Robert Wilhelm. *Born March* 31, 1811, *at Göttingen.*

Anwendung der Kohle zu Voltaischen Battarien. (*Poggendorff. Ann.* liv. "in or before 1842.") *Leipzig*

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(*This is Volta's discovery*, not *Bunsen's.* F. R.)

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**Buntzen,** Thomas. *Born Sept.* 5, 1776, *at Copenhagen; died* 1807, *at St. Petersburg.*

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† **Burci.** Passage of an Electrical Current . . . Medical. (*Vide* Matteucci.)

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**Burkhardt,** Basle. Uber die Anwendung des Galvanismus bey Hysterie und Convulsionen. Beobachtungen. 8vo. (*Allgemeine Medizinische Annalen, Junius*, 1802.) 1802

**Burman,** Erich J. De Mineræ Ferræ per Magnetem investigatione. *Upsaliæ*, 1728

**Burnaby,** A. Voyages dans l'Amérique Septentrionale. Traduit de l'Anglais. (Conductors melted by Lightning.) *Lausanne*, 1778

† **Burnet.** On the Motion of Sap in Plants. Researches of Dutrochet on Endosmose and Exosmose, who refers this influence to Electricity. At Royal Institution, Evening Meeting, March 27, 1829. 8vo. 2 pp. (*Phil. Mag. or Annals*, v. 389.) *London*, 1829

† **Burney,** W. Answers by Dr. Wm. Burney to the Queries proposed by John Farey, Esq., sen. (*Phil. Mag. for June*), respecting Shooting Stars and Meteors. 8vo. 3 pp. (*Phil. Mag.* lviii. 22.) *London*, 1821

† Description of a Meteoric Phenomenon which appeared at Gosport, July 4, 1821. 8vo. (*Phil. Mag.* lviii. 78.) *London*, 1821

† On the Appearance of Meteors, Parhelia, and Paraselenæ, as Prognostics in general of Wind and Rain. 8vo. 7 pp. (*Phil. Mag.* lviii. 127 and 198.) *London*, 1821

† A large Meteor on the 11th December, 1821, observed at Gosport, 8vo. 1 p. (*Phil. Mag.* lviii. 466.) *London*, 1821

**Burnouf.** (*Vide* Guillemin and Burnouf.)

† **Burq,** V. Métallo-thérapie. Traitement des Maladies nerveuses, &c., par les Applications Métalliques. Abrégé Historique, &c. 8vo. 48 pp. (Extrait de 22 *Mémoires ou Notes aux deux Académies.*) *Paris*, 1853

† **Burrell,** E. An Account of Two Northern Auroras, as they were observed at the Vicarage of Sutton-at-Hone, in Kent. 4to. 1 p. (*Phil. Trans. for* 1717, p. 584.) *London*, 1717

**Bursen.** On Electricity. 38 pp. *Leipzig*, 1752

**Busse,** Friedrich Gottlieb von. *Born April* 3, 1756, *at Gardelegen, Altmark; died Feb.* 4, 1835, *at Freiberg.*

† Beruhigung über die neuen Wetterableiter. 8vo. 62 pp. *Leipzig*, 1791

Beschreibung einer wohlfeilen und sichern Blitzableitung, mit neuen Gründen und Erfahrungen. 8vo. 1 plate. *Leipzig*, 1811

**Bussolin,** P. Memoria Chimico-docimastica esponente un Processo per separare il rame dallo Zinco, applicabile pure alla Miniera di rame (d'Agordo), e suoi edotti, &c., di P. Bussolin. Capo . . . presso l'Imp. Reg. Zecca di Venezia. 8vo. (*Giornale da Rio*, lxvi. 156.) *Padova* 1828

**Butet.** Notice des principaux Résultats obtenus sur l'Electricité Galvanique, par les Expériences faites à l'Ecole de Médecine. (*Bulletin des Sciences de la Soc. Philomath.* No. 43, Vendémiaire, an 9.) *Paris*, 1801

**Butschany,** Matthias. *Born Feb.* 10, 1731, *at Altsohl, Ungarn; died August* 2, 1796, *at Hamburg.* (From *Poggendorff*, i. 353.)

Dissertatio de Fulgure et Tonitru ex Phænomenis Electricis. 4to. pp. 1 et 2. (*Poggendorff*, i. 353.) *Göttingen*, 1757

Der Blitz entsteht nicht durch Entzündung einiger brennbaren Theilchen die in der Luft schweben, und ist auch kein Feuer. (*Beitrage zu Hannov. Magazin*, 1761.) *Hanover*, 1761

Eine Unvollkommenheit der Blitzableiter, nebst ihrer Verbesserung. 8vo. (From *Poggendorff*, i. 353.) *Hamburg*, 1787

**Butterfield.** On Magnetical Sand. 4to. (*Phil. Trans. for* 1698, p. 336.) *London*, 1698

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† **Buys-Ballot.** Meteorologische Preisfrage ausgeschreiben von der Societät der Künste und Wissenschaften zu Utrecht, und Motivirung derselben. 8vo. 28 pp. (*Berl. Fortsch. der Phys.* iii. 565.) *Berlin*, 1847

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† **Buzzi,** F. Osservazione di un Amaurosi (gotta-serena) pituitosa curata coll' Elettricità. 4to. 2 pp. (*Opuscoli Scelti*, vi. 359.) *Milano*, 1783

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Essay on Electricity. (From *Bentley*, 1814 to 1839.)

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**C., L. O.** (*Vide* Anon. Electricity.) 1813

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* Memoria sull' Igrometro che ottenne il premio dell' Acad. Teodoro-Palatina di Manheim. (*Giorn. Enciclop. di Vicenza*, 1783.) 1783

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**Comparoni.** Memoria sulla Elettricità animale, 1802. 8vo. (*Comment. dell' Accad. del Dipartimento del Mella*, vol. i.) *Brescia*, 1808

**Compass Committee.** *Vide* Liverpool Compass Committee.

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† **Conceil,** J. A. Télégraphie nautique. 8vo. 2 plates. *Dunkerque*, 1852

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**Concius,** A. De succino. (*Pog.* i. 470.) 1660

*Poggendorf refers in the same place to "Beschreib. über den ausser der Naturzeit. geschehenden Donnerschlag," without further indications.*

**Conférence maritime,** tenue à Bruxelles pour l'adoption d'un système uniforme d'observations météorologiques à la mer. Août et Sep. 1853. 1853

† **Conférence Télégraphique internationale de Vienne.** Documents de la Conférence télégraphique internationale de Vienne. Fol. 459 pp. *Vienne*, 1868

**Configliachi,** Pietro. *Born* 1779, *at Mailand; died June* 27, 1844, *at Pavia.*

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Esperienze dirette a verificare la proprietà del raggio violetto annunziata dal Morichini di magnetizzare le punte di ferro. 4to. (*Originally a Memoir. Nel Giornale di Pavia*, vi. 291.) *Bologna*, 1813

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† Intorno alla costruzione dei Parafulmini. Memoria. (Ricevuta a di Feb. 3, 1830.) 4to. 12 pp. *Mem. Soc. Ital.* xx. 314, *Fisica.*) *Modena*, 1829

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† On the Voltaic decomposition of water. 8vo. 3 pp. (*Phil. Mag.* vii. 4th Series, p. 426, June, 1854.) *London*, 1854

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† **Contessi,** Melandri. Disquisizione sui paragrandini. 4to. 26 pp. *Treviso*, 1826

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† **Cooke.** Thomas Fothergill. Authorship of the practical Electric Telegraph of Great Britain; or, the Brunel Award vindicated, in seven Letters, containing extracts from the Arbitration Evidence of 1841, edited in assertion of his brother's rights. 8vo. *London*, 1868

† Invention of the Electric Telegraph. The charge against Sir Charles Wheatstone, of tampering with the press, as evinced by a letter of the Editor of the *Quarterly Review* in 1855, reprinted from the *Scientific Review*. 8vo. *London*, 1869

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**Cooper.** Experimental Magnetism. 8vo. (*From Young*, p. 436.) 1761

† **Cooper,** C. C. Identities of Light and Heat of Caloric and Electricity. 8vo. 96 pp. *Philadelphia*, 1848

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**Copenhagen Society.** Acta Reg. Soc. Hafniensis. 4 vols. 8vo. *Hafn*, 1812

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† **Cornelius,** C. Erklärung der wichtigsten Erscheinungen der Elekt. unter Voraussetzung eines elektrischen Fluidums. 8vo. 79 pp. *Giessen*, 1846

† **Cornelius,** C. B. Zu Theorie der electromagnetischen Erscheinungen. 8vo. 17 pp. (*Zeitschrift für d. Gesammten Naturwissenchaften. Aug.* 1853, No. viii.) 1853

† Die Lehre von der Elektricität und dem Magnetismus. Versuch einer theoretischen Ableitung der gesammten magnetischen und elektrischen Erscheinungen. 8vo. 208 pp. *Leipzig*, 1855

**Corner.** (*Vide* Bona and Corner.)

**Corniani,** G. B. L'Aurora. Poemetto. 8vo. *Brescia*, 1779

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**Cortambert.** Sur le Galvanisme. 8vo. (*Mémoires de la Société Médicale d'émulation*, i. 232.) *Paris.*

**Cortenovis,** A. M. Dialoghi tre dell' elettricismo conosciuto dagli antichi; etc. (*Giorn. letterar. di Venezia*, 1790.) *Venezia*, 1790

**Cortes,** Martin. Breve compendio de la esfera y de la arte de Navigar. *Cadix*, 1546

*Note.—Wherein the hitherto frequently denied inequality of Magnetic declination at various places was recognised.*

**Cosmos,** Le. Revue encyclopédique des progrès des Sciences. Rédigé par Moigno. 8vo. *Paris*, 1852

**Cosnier, Maloet, Darcet,** &c. Rapport sur les avantages reconnus de la nouvelle méthode d'administrer l'électricité dans les maladies nerveuses, etc. . . . par M. Ledru, connu sous le nom de Le Comus. 18mo. 115 pp. *Paris*, 1783

† **Cossa,** A. Notizie relative alla storia dell' Elettro-Chimica. 8vo. 17 pp. *Pavia*, 1858

*Note.—Shows clearly Brugnatelli's priority in invention, and complete practical application of electro-plating, &c.* p. 16.

**Cossali,** Pietro. *Born June 29th*, 1748, *at Verona; died December 20th*, 1815, *at Padua.*

Osservazione su di un fulmine accompagnato da strani fenomeni. (*Pogg.* i. 483.)

Soluzione generale del problema di determinare la capacità d'una botte circolare o concolare elettrica con i fondi uguali oppure disuguali. (*Pogg.* i. 483.)

† Sui barometri luminosi: con Appendice dimostrante nel Barometro una macchina elettrica singolare. Memoria. Ricevuta 22 Luglio, 1809. 4to. 28 pp. 1 plate. (*Mem. Soc. Ital.* xv. 76. part ii.) *Verona*, 1810

Sulla dipendenza dei movimenti del Barometro dall' elettricità si artificiale che naturale. (*Read on 20th July*, 1815, *in the Venetian-Lombardy I. R. Institution, but not printed in its Memoirs.*) 1815

**Costa,** M. A. Memorie sopra i mezzi di perfezionare la nostra conoscenza . . . dell' atmosfera, e descrizione di un istrumento . . . per osservazioni meteorologiche . . . 8vo. 50 pp. 1 plate. *Lucca*, 1839

† **Costa de Serda,** E. Essai d'un Réglement sur le service télégraphique en campagne. 8vo. 96 pp. *Paris*, 1866

† **Costantini,** G. A. (?) Difesa della . . Sentenzache i Fulmini discendono dalle nuvole . . . Riflessioni . . 4to. 184 and 12 pp. *Venezia*, 1749

† **Costanzia,** G. Nuova macchina elettrica. 4to. 2 pp. 1 plate. (*Opuscoli Scelti*, xii. 69.) *Milano*, 1789

† **Costard,** G. Part of a letter from Mr. G. Costard to Mr. T. Catlin, concerning a fiery Meteor seen in the air on July 14, 1745. 4to. 3 pp. (*Phil. Trans.* xliii. 522.) *London*, 1744-5

† **Cotes,** R. A description of the great Meteor which was seen on the 6th March, 171⅘ sent in a letter from . . . R. Cotes . . . to R. Danuye . . . 4to. 5 pp. 1 plate. (*Phil. Trans.* xxxi. for 1720-21.) *London*, 1723

**Cotte,** Louis. *Born October 20th*, 1740, *at Lyon; died October 4th*, 1815, *at Montmorency.*

† Traité de Météorologie. Reprinted. 4to. (*Acad. Paris.*) *Paris*

† Mémoires de Météorologie, suite. 4to. (*Acad. Paris. Reprinted.*) *Paris*

Observation sur des modifications de l'électricité des nuages, pendant un orage, et sur le trait de feu du tonnerre, qui partoit en même temps de la terre et du nuage. 4to. (*Mém. de Paris*, an. 1769, *Hist.* p. 19.) *Paris*, 1769

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Table of 134 Auroræ observed at Montmorency in twelve years, 1768-79. *Paris*, 1783

**Cotton,** E. Of a considerable Loadstone digged out of the ground in Devonshire. 4to. (*Phil. Trans.* an. 1667, p. 423.) *London*, 1667

**Cotugno,** Domenico. *Born January* 29, 1736, *at Rira, Naples; died October* 6, 1822, *at Naples.* (*Poggendorff*, i. 417.)

† Said to have received a violent shock on dissecting a Mouse. (*In Giornale Enciclop. di Bologna, foglio*, viii. 1786.) *Bologna*, 1786

*Note.—This is stated in a letter of one page from Cotugno to Vivenzio, dated Napoli, 2 Ottobre*, 1784, *appended to Vivenzio's Teoria e Pratica dell' Elett. Med. translated from Cavallo, p.* 157, 1784. *Volta did not believe the account. Sue, Hist. du Galv.* i. 1, *referring to the Journal Encyclopédique de Bologna, gives a somewhat different account from that of Vassalli, and from that of Cotugno's letter of October* 2, 1784, *to Vivenzio. Sue refers also to the Journal de Physique*, xli. 57, *on the subject.*

† **Couche.** Sur le télégraphe des trains de M. Bonelli, &c. . . . 8vo. 24 pp. (*Ext. Annales des Mines*, vol. vii.) *Paris*, 1856

† **Coudret,** J. F. Recherches médicales physiologiques sur l'Electricité animale . . . 8vo. 496 pp. and table. 3 plates. *Paris*, 1837

† **Coudriniere.** Osservazione sulla luce dell' acqua del mare. 12mo. 4 pp. (*Scelta d' Opuscoli*, 12mo. xiv. 107.) *Milano*, 1776

**Coulomb,** Charles Augustin. *Born June* 14, 1736, *at Angoulême; died August* 23, 1806, *at Paris.*

Résultats des différentes méthodes employées à donner aux barres d'acier, le plus haut degré de magnetisme. 4to. (*Mém. de l'Institut.* vi. 1806.) *Paris*, 1806

Recherches sur la meilleure manière de fabriquer les aiguilles aimantées. . . . 4to. (*Mém. de Matémat. et de Phys.* ix. 165.) *Paris*, 1777

† Recherches théoriques et expérimentales sur la force de torsion et sur l'élasticité des fils de métal. Application de cette théorie à l'emploi des métaux dans les arts et dans différentes expériences de physique. Construction de différentes balances de torsion pour mesurer les plus petits degrés de force. Observations sur les lois de l'élasticité et de la cohérence. 4to. 41 pp. 2 plates. (*Mém. de Paris*, an. 1784, *Mém.* p. 229.) *Paris*, 1784

Description d'une boussole, dont l'aiguille est suspendue par un fil de soie. 4to. (*In Mém. de Paris*, an. 1785, *Mém.* p. 560.) *Paris*, 1785

† Mémoires sur l'Electricité et le Magnétisme. Extraits des Mémoires de l'Acad. R. des Sciences de Paris, publiés dans les années 1785 à 1789, avec planches et tableaux. 4to. *Paris*, 1785-9

† Détermination théorique et expérimentale des forces qui ramènent différentes aiguilles aimantées à saturation, à leurs méridiens magnétiques. Lu le 26 prairial, an. vii. 4to. 1 plate. (*Mém. de l'Institut.* 1re. cl. tom. iii. p. 176.) *Paris*, 1799

† Nouvelle méthode de déterminer l'inclinaison d'une aiguille aimantée. 4to. 20 pp. (*Mém. de l'Instit. Nat.* tom. iv. *Sc. Math. et Phys. Mém.* p. 565.) *Paris*, 1799

Mém. sur l'Electricité et le Galvanisme. 4to. 1810

Experiments on the causes which determine a body to take one kind of Electricity rather than another. (*Biot's Physiq.* tom. ii.)

Mémoire sur le Magnétisme. 4to. (*Soc. Philomath.* an. 10, pp. 101, 114.) *Paris*, 1802

Nouveau moyen pour mesurer l'inclinaison de l'aiguille aimantée. 4to. (*Société Philomath.* an. 3, p. 53.) *Paris*, 1795

(*Note.—Arella says that Biot had possession of Coulomb's MSS.*)

**Coulvier-Gravier.** Recherches sur les Météores. 8vo. 1850

† Catalogue des Globes filants observés de 1841 à 1853. 4to. 1 plate. *Paris*, 1854

† Note sur le retour des Etoiles filantes aux 9, 10, 11 Août. 4to. 4 pp. 1 plate. (*Ext. Ann. Chin.* 3 série, vol. xliii.) *Paris*, 1855

† Recherches sur les Météores et sur les lois qui les régissent. 8vo. 372 pp. 16 plates (lith.). *Paris*, 1859

† Suite du Catalogue des Globes filants (Bolides) observés à l'observatoire météorologique du Luxembourg du 3 Septembre, 1853, au 10 Novembre, 1859. 4to. 15 pp. (*Ext. des Ann. de Chim.* 3me série, 1860.) *Paris*, 1860

Précis des recherches sur les Météores et sur les lois qui les régissent. 12mo. 182 pp. 12 plates. *Paris*, 1863

† Les Etoiles filantes. 8vo. 14 pp (*Extr. de la Revue Maritime et Coloniale*, Fév. 1864.) *Paris*, 1864

Précis des recherches sur les Météores et sur les lois qui les régissent. 12mo. 182 pp. 2 plates. *Paris*, 1866

Recherches sur les Météores et sur les lois qui les régissent. 8vo. 272 pp. 1 plate. (*From Zuchold's Cat.* 1866, p. 68.) *Paris*, 1866

† Lettres sur les Etoiles filantes. 12mo. 147 pp. *Paris*, 1866

† **Coulvier-Gravier et Saigey.** Recherches sur les Etoiles filantes. Introduction Historique. 4to. 192 pp. *Paris*, 1847

**Courcelles,** de. Dissertatio de electricitate, summo viscosam disobstruente materiam remedio. 4to. (*From Guitard and Holbeck*, p. 52.) 1756

**Courtnay.** (*Vide* Bache and Courtnay.)

† **Couvier,** George. Rapport sur le galvanisme fait à l'Institut national. 4to. 4 pp. (*Mém. des Sociétés Savantes et Littér.* i. 132, *and from Sue, Hist.* ii. 151, *and in Journ. de Phys.* vii. 318.) *Paris*, 1801

† **Cowper,** (Poet.) Letter to Tilloch, from J. S. S., containing an Extract from the 3rd vol. p. 178, in a letter to the Rev. John Newton, of Cowper's Correspondence as published by Hayley. This extract contains an account of two Fireballs which burst "*on the steeple, or close to it,*" at Olney. 8vo. (*Phil. Mag.* xix. 296.) *London*, 1804

**Coxe,** Dr. J. R. Use of Galvanism as a Telegraph: in an extract of a Letter from Dr. J. Redman Coxe, Professor of Chemistry, Philadelphia. 8vo. (*From Vail*, p. 128, *in Thomson's Annals*, 1st series, vii. 162.) *London*, 1816

**Cozzi,** Andrea *Born about* 1795, *at Florence; died November* 27, 1856, *at Florence.*

† Sulle applicazioni della forza elettro-chimica della pila all' analisi dei sali metallici disciolti in liquidi organici vegeto-animali. Memoria. 8vo. 10 pp. (*From Pogg.*) *Firenze*, 1835

Storia dei più grandi progressi della Scienza elettrica. Discorso . . nel suo priv. Instituto. 8vo. *Firenze*, 1837

Sulle applicazioni della forza elettro-chimica . . all' analisi dei Sali. 8vo. 7 pp. *Firenze*, 1842

† **Cradock,** Z. The appearance of a fiery Meteor as seen by Cradock, communicated by M. H. Baker. (Read June 7, 1844.) 4to. 1 p. (*Phil. Trans.* xliii. 78.) *London*, 1744-5

† **Crahay,** J. G. Mémoire sur les Oscillations diurnes du Baromètre. 15 pp. 2 plates. 4to. *Bruxelles*, 1843

Sur l'emploi de le fonte de fer dans la confection d'aimans artificiels. (*Bulletin de Bruxelles Clas. des Sciences*, 1853, p. 406.) *Bruxelles*, 1853

† **Craig,** Wm. On the influence of the variations of Electric Tension as the remote cause of Epidemic and other Diseases. 8vo. 436 pp. *London*, 1859

**Cramer, Johann Andreas.** *Born December* 14, 1710, *at Quedlinburg; died December* 6, 1777, *at Berggiesshübel b. Dresden.*

**Cramer, Joh. And.** Elementa docimasticæ.

Anfangs gründe d. Probirkunst Neue Auflösung, von J. F. A. Gottling. *Leipzig*, 1794

**Cramer, Joseph Anton.** *Born February* 12, 1737, *at Paderborn; died December* 21, 1794, *at Hildesheim.*

Bericht von einer am 5 Nov. 1784, zu Hildersheim beobachteten feurigen Lufterscheinung. *Bremen*, 1785

† Über die Entstehung des Nordlichts. 8vo. 109 pp. *Bremen*, 1785

**Cramer, Gabriel.** *Born July* 31, 1704, *at Geneva; died January* 4, 1752, *at Bagnolo b. Nismes.*

† An account of an Aurora Borealis attended with unusual appearances, in a letter from the learned Cramer to Jurin J., dated Genova, February 20, 1730, N.S. 4to. 4 pp. (*Phil. Trans.* xxxvi. 279.) *London*, 1729-30

† **Cranfurd, R.** Stone from the clouds on the 5th April, 1804, at Possil, about three miles from Glasgow. 8vo. 4 pp. (*Phil. Mag.* xviii. 371.) *London*, 1804

**Crause** (Krause), R. W. De fulmine tactis. *Jenæ*, 1694

**Crell, L. F. F.** Chemisches Journal. 6 Bde. *Helmstadt*, 1778-81

Chem. Archiv. 2 Bde. *Helmstadt*, 1783

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Beiträge zu d. Chem. Ann. 6 Bde. 8vo. *Helmstadt*, 1785-99

**Crescimbene, G.** Pensieri sulla vitale elettromozione. 8vo. *Bologna*, 1838

**Creve, Johann Caspar Ignaz Anton.** *Born October* 28, 1769, *at Coblenz; died July* 7, 1853, *at Eltville, Nassau.*

Beiträge zu Galvanis Versuchen üb. d. Kräfte d. thierischen Elekt. auf d. Bewegung d. Muskeln. 8vo. 104 pp. *Frankfurt and Leipzig*, 1793

Phénomènes du Galvanisme. (*Sue*, i. 227, *says* "*Voyez les Mémoires de la Soc. med. d'émulation*, i. 236.") *Paris*

Von der thierischen Electricität. (*Schreiben der Berliner Gesells. Naturf. Freunde*, B. xi. p. 113.) *Berlin*, 1794

† Vom Metallreize, ein neu entdeckt untrügl Prüfungsmittel des wahren Todes. 8vo. 226 pp. 1 plate. *Leipzig*, 1796

Vorläufige Bekanntmachung der Natur des Metallreizes entdeckt von Prof. Creve. (*Salzburg med. chirurg. Zeitung*, i. 49, *July*, 1796.) *Salzburg*, 1796

De Galvanismi in praxi medica usu.

*Sue gives an* "*Extrait d'un rapport fait sur cet ouvrage à l'Ecole de Médecine de Paris,*" *par Hallé et Sue, le* 24 *prairial, an.* 11, . . *and refers to the Jl. de la Soc. de Méd.* in 8vo. xviii. 216.

† **Crimotel de Tolloy.** Electricité, Galvanisme, et Magnétisme appliqués aux maladies nerveuses, &c. 42 pp. 8vo. *Paris*, 1853

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**Croissant, à Laval.** Machines électriques en papier. (*Vide* Du Moncel, "Exposé," 2nd edit. p. 399.)

† **Croker.** An account of a Meteor seen in the air in the Daytime, on Dec. 8, 1733. 4to. 2 pp. (*Phil. Trans.* xli. 186.) *London*, 1739-40-41

† **Croker**, T. H. Experimental Magnetism, or the truth of Mr. Mason's discoveries in that branch of Natural Philosophy. 8vo. 2 plates. *London*, 1761

*† **Crookes**, Wm. A Handbook of the Waxed Paper process in Photography. 8vo. 55 pp. (*Vide also* Samuelson and Crookes.) *London*, 1857

**Cross.** (*Vide* Singer and Cross.)

**Crosse**, Andrew. *Born June* 17, 1784, *at Broomfield; died July* 6, 1855, *at Broomfield.*

† Experiments in Voltaic Electricity. 8vo. 6 pp. (*Phil. Mag.* xlvi. 421.) *London*, 1815

† Memorials scientific and literary of And. Crosse the Electrician; edited by Mrs. Crosse. 8vo. 360 pp. *London*, 1857

**Crova**, A. Mémoire sur les lois de la force électro-motrice de polarisation. Propositions de chimie données par la Faculté des sciences de Montpellier. 4to. 45 pp. Pl. *Metz*, 1862

**Cruger**, P. Disputatio de motu magnetis. (*From Pogg.* i. 501.) *Leipzig*, 1615

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*This memoir does not appear to have been printed in the Memoirs of the Academy. Bouguer rendered an account of his and Delor's experiments to the Academy on the* 19*th* (?). *Dalibard gives his memoir at length in the above* (vol. ii. p. 67 *et seq.*), *but says nothing about Delor's.*

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† Second Letter on the Electrolysis of Secondary Compounds, addressed to Michael Faraday. . Read May 21. 4to. 16 pp. (*Phil. Trans. for* 1840.) *London*, 1840

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† **Daniell and Miller.** Additional researches on the Electrolysis of Secondary Compounds. 4to. 19 pp. (*Phil. Trans. for* 1844, pt. i. (*Faraday's copy.*) *London*, 1844

(*Vide* also Brunel and Daniell.)

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(*A vertical rod (with vane) carries (below) a horizontal toothed wheel which acts upon a vertical wheel on a spindle carrying an Index.*)

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*† **Darcet.** Neue Erfindung metallene Gussabdrücke mit Gyps-Form zu machen. 8vo. 44 pp. 2 plates. *Tubingen*, 1806

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**Da-Rio,** Nicolò. *Born August* 15, 1755, *at Padua; died February* 13, 1845, *at Padua.*

Giornale della Italiana Letteratura. 66 vols. 8vo. (*Indices* in vols. xxxi. and lxi.) (*Published anonymously.*) *Padova*, 1802 *to* 1828

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† Notice sur les résultats des expériences relatives aux perturbations du compas à bord des navires en fer, faites par G. B. Airy . . à la demande du bureau de l'amirauté; traduite de l'anglais par M. B. Darondeau, ingén. hyd. de marine. 8vo. 27 pp. (*Annales Maritimes et Coloniales.*) "Rapport à S. E. le Ministre de la Marine sur une Mission accomplie en Angleterre pour étudier les questions relatives à la régulation des compas." *Paris*

Sur l'emploi du compas étalon et la courbe des déviations à bord des navires en fer et autres. 8vo. 40 pp. 2 plates. *Paris*

† **Darondeau et Chevalier.** Observations météorologiques et magnétiques faites pendant le voyage autour du monde sur la corvette la Bonite, commandé p. M. Vaillant. 4 tomes. 8vo. Pls. *Paris*, 1840-46

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† **D'Avezac.** Anciens témoignages historiques relatifs à la Boussole. 8vo. 11 pp. *Paris*, 1858

† Aperçus historiques sur la Boussole et ses applications à l'étude des phénomènes du Magnétisme terrestre. 8vo. 16 pp. (*Lue à la Soc. Géograph.* 20 *Avril*, 1860. *Ext. Bulln. Soc. de Géograph. Av. et Mai*, 1860.) *Paris*, 1860

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* **Davies,** A. M. Meteoric Theory of Saturn's Rings. (*From the Athenæum, Dec.*) 1871

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† **Daviet de Foncenex,** F. Récit d'une foudre ascendante eclatée sur la tour du fanal de Villefranche. (*Biblioteca oltramontana*, 1789.) 1789

† **Davis,** Dl. Book of the Telegraph. 8vo. 44 pp. Cuts. (*Preface dated* 1847; *the first edition was in* 1842.) *Boston, U.S.*, 1851

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**Davy,** Dr. John. *Born May* 24, 1791, *at Penzance.*

Some observations on Atmospheric Electricity. 4to. (*Trans. Royal Society of Edinburgh*, 1836.) *Edinburgh*, 1836

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† Scoperte Galvaniche del Sig. Davy. Transunto del rapporto della Commissione del Galvanismo, letto all' Istit. 4 Gen. 1808. (*Read* 1808.) 4to. 11 pp. (*Nuova Scelta d'Opusc.* ii. 190.) *Milano*, 1807

† The Bakerian Lecture. On some new phenomena of chemical changes produced by Electricity, particularly the decomposition of the fixed Alkalis, and the exhibition of the new substances which constitute their bases; and on the general nature of Alkaline bodies. 8vo. 18, 12, and 9 pp. (*From Phil. Trans.* 1808. *Phil. Mag.* xxxii. pp. 1, 101, and 146.) *London*, 1808

† Description of a new Eudiometer, invented by H. Davy, for the combustion of oxygen and hydrogen gases, by R. Knight. 8vo. 1 page, 1 plate. (*Phil. Mag.* xxxi. 3.) *London*, 1808

† Experiments on the Alkalies, repeated on the 14th and 28th January, 1808, before the Askesian and Minerological Society. (*Phil. Mag.* xxix. 372.) 1808

† Electro-chemical researches on the decomposition of the Earths; with observations on the metals obtained from the Alkaline Earths, and on the amalgam procured from Ammonia. (*From Phil. Trans. for* 1808, part ii. *Phil. Mag.* xxxii. 193.) 8vo. 31 pp. *London*, 1808

† The Bakerian Lecture. An account of some new analytical researches for the nature of certain bodies, particularly the Alkalies, Phosphorus, Sulphur, Carbonaceous matter, and the Acids hitherto undecomposed; with some general observations on Chemical Theory. 8vo. 10 pp. (*Phil. Mag.* xxxiii. 479.) *London*, 1809

† Researches on the Oxymuriatic Acid, its nature and combinations; and on the elements of the Muriatic Acid. With some experiments on Sulphur and Phosphorus made in the Laboratory of the Royal Institution. 8vo. (*In Phil. Mag.* xxxvi. 352 and 404. *Phil. Trans. for* 1809, part ii.) *London*, 1810

† The Bakerian Lecture for 1809. On some new Electro-Chemical researches on various objects, particularly the metallic bodies from the Alkalies and Earths, and on some combinations of Hydrogen. 8vo. 13 pp. (*Phil. Mag.* xxxv. 401, xxxvi. 17 and 85. *Phil. Trans. for* 1810, part i.) *London*, 1810

† Elements of Chemical Philosophy. Part i. vol. i. 8vo. xvi. and 511 pp. 12 plates. (*Phil. Mag.* xl. 145.) (*Roget's copy.*) *London*, 1812

Elements of Agricultural Chemistry. 4to. (*Experiments on action of Electricity in Vegetation.*) *London*, 1813

† Elementi di filosofia chimica, . . tradotti dall' Inglese in Francese dal Van Mons e in Italiano dal Dr. G. . . . con Note dei Sig. Prof. L. V. Brugnatelli e P. Configliachi. Volume i. 8vo. 275 pp. (*Volta's copy.*) *Milano*, 1814

**Davy**, Sir Humphry, Bart.—*continued.*

† Elementi di filosofia chimica, tradotti sulla versione francese fatta dal Van Mons, e comentati da G. Moretti e G. Primo. 2 volumi. 8vo. 1 vol. 410 pp. 4 plates; 2nd vol. 391 pp. 8 plates. (*Volta's copy.*) *Milano*, 1814

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† Elementi di filosofia chimica tradotti dall' Inglese in Francese dal Van Mons e in Italiano, dal Dr. G.; . . . con Note dei Sig. Prof. L. V. Brugnatelli e P. Configliachi. Volume ii. 8vo. *Pavia*, 1816

(*This volume contains (at the end) Davy's Introduzione alla filosofia chimica contenente la storio della chimica aggiunta all' edizione Pavese in due volumi*). (*Volta's copy.*) *Pavia*, 1816

Beiträge zur Erweiterung des Chemischen Theils der Naturlehre. Aus dem Englischen übersetzt. 8vo. *Berlin*, 1820

† On the Magnetic phenomena produced by Electricity. . . . 8vo. 8 pp. (*Phil. Trans. for* 1821, part i. *Phil. Mag.* lviii. 43.) *London*, 1821

† Further researches on the Magnetic phenomena produced by Electricity, with some new experiments on the properties of electrified bodies in their relations to conducting powers and temperature. 8vo. 10 pp. (*Phil. Mag.* lviii. 406.) *London*, 1821

† On the Electrical phenomena exhibited *in vacuo*. 8vo. 8 pp. (*Phil. Trans. for* 1822, pt. i. *Phil. Mag.* lx. 179.) *London*, 1822

† Preservation from Lightning. (*Portable conductor.*) 8vo. 1 p. (*Phil. Mag.* lix. 468.) *London*, 1822

† The Bakerian Lecture. On the relations of Electrical and Chemical changes. 1827. 8, 11, and 10 pp. (*Phil. Mag. or Annals*, i. pp. 31, 94, and 190.) *London*, 1827

† Six Discourses delivered before the Royal Society at their anniversary meetings on the award of the Royal and Copley Medals, preceded by an Address to the Society on the progress and prospects of Science. 4to. *London*, 1827

† Account of some Experiments on the Torpedo. 8vo. 4 pp. (*Phil. Trans. for* 1829, part i. *Phil. Mag. or Annals.* vi. 81.) *London*, 1829

† Life of Sir Humphry Davy . . . by John Ayrton Paris. (*Phil. Mag. or Annals*, x. 214, 379, 426.) *London*, 1831

*Note.—This is a review of Paris's book.*

Memoirs of, by John Davy. 8vo. 2 vols. *London*, 1836

† Works edited by John Davy. 8vo. 9 vols. *London*, 1839-40

Fragmentary Remains, Literary and Scientific, with a Sketch of his Life, edited by his Brother. 8vo. 1858

**Davy.** (*Vide* Marié-Davy.)

**Debbe**, C. W. Die Influenz-Elektrisirmaschine von Holz. (Programm d. Realsch. zu Bremen.) 4to. 7 pp. *Bremen*, 1870

**De Boismont.** (*Vide* Brierre de Boismont.)

**De Bougainville.** (*Vide* Bougainville.)

**De Boillon.** (*Vide* Boillon.)

**Debout.** Bulletin général de thérapeutique. (*From Guitard.*) *Paris*, 1852

**De Branville.** (*Vide* Branville.)

**De Bremond.** (*Vide* Bremond.)

† **Debrun**, L. P. Mémoire sur les Trombes qui ont paru au-dessus de Paris, le 16 Mai, 1806, adressé à l'Institut. 8vo. 28 pp. *Paris*, 1807

**De Bruno.** (*Vide* Bruno.)

**De Caraman.** (*Vide* Caraman.)

**De Castro.** (*Vide* Castro.)

**Dechales,** C. F. M. Mundus mathematicus. 4 vols. fol. 2nd edition. (*From Van Swinden*, i. 38, *and from Poggendorf.*) *Lyons*, 1690

† **Decharme,** M. C. Météorologie. Note sur les éclairs phosphoréscents observés à Angers, le 25 Juillet, 1868. 8vo. 6 pp.) *Angers*, 1870

† **Decharmes,** C. Visites à l'Exposition Universelle. Electricité. 8vo. 15 pp. (*Extrait de la Picardie ; Revue littéraire et scientifique.*) *Amiens*, 1856

† Météorologie. De l'Ozone. Lu à l'Académie d'Amiens, 15 Décembre, 1855. 8vo. 12 pp. (*Extrait de la Picardie ; Revue littéraire et scientifique.*) *Amiens*, 1856

† Application de la lumière électrique à la Microscopie. 8vo. 7 pp. *Amiens.*

† Météorologie. Application du Télégraphe électrique à la prédiction du temps. 8vo. 6 pp. *Amiens*, 1856

† Nouvelle pile électrique. Nouvelles hélices, etc. . . . 8vo. 9 pp. *Amiens*, 1856

**De Colnet.** (*Vide* Colnet.)

**De Curtis.** (*Vide* Curtis.)

**De Custine.** (*Vide* Custine.)

**De Dree.** (*Vide* Dree.)

**De.** *Note.—All names having the prefix* DE *will be found under the first letter of the second portion of the name, as above.*

**De Foncenex.** (*Vide* Darret de Foncenex.)

**De Gassicourt.** (*Vide* Cadet de Gassicourt.)

**Degaulle** (or Degault), Jean Baptiste. *Born July 5*, 1732, *at Attigny, France ; died April* 13, 1810, *at Honfleur, France.*

Description et usage d'un nouveau compas azimutal. *Havre*, 1779

Instruction sur la manière de vérifier les boussoles. (*From Poggendorff*, i. 535.) *Honfleur*, 1803

**Deimann,** J. R. Geneeskundige proeven en beschouwingen over de gunstige werking der electriciteit in verschellende ongestoladeden. (*From Poggendorff*, i. 1555.) *Amsterdam*, 1779

Von den guten Wirkungen der Elektricität auf verschiedene Krankheiten mit Zusätzen &c. von Kuhn. 2 vols. 8vo. (*From Dove*, p. 243.) *Kopenhagen*, 1793

*Note.—The 2nd part or vol. consists entirely of Kuhn's additions to the Dutch original.*

Versuche, welche die Zerlegung des Wassers durch die elektrischen-Funken näher bestätigen. 8vo. 1796

**Deiman** mit **Paets van Troostwijk.** Beschryving van eine electrisir-machine en van proefnemingen mit dezelve. 4to. *Amsterdam*, 1790

(*Vide* also Troostwijk.)

**De la Borde.** (*Vide* La Borde.)

**De la Fond.** (*Vide* Sigaud de la Fond.)

**De la Garde.** (*Vide* La Garde.)

**De la Hire.** (*Vide* La Hire.)

† **Delalande,** J. On the Stones said to have fallen from the Atmosphere. 8vo. 3 pp. (*Phil. Mag.* xvii. 228.) *London*, 1803

† **Delalot-Sevin.** Systèmes Delalot-Sevin pour l'éclairage et le chauffage par l'électricité à l'aide du photogène et du thermogène. 8vo. 39 pp. 4 plates. *Besançon*, 1861

† **Delamarche, A.** Eléments de télégraphie sous-marine. 8vo. 83 pp. *Paris*, 1858

† Elemente der unterseerischen Telegraphie nach dem französischen frei bearbitet . . . mit Anmerkungen, &c. . . . Von C. Veichelmann. 8vo. 108 pp. 1 plate. *Berlin*, 1859

**De la Métherie.** (*Vide* La Métherie.)

**De la Motte.** (*Vide* La Motte.)

**Delaroche.** (*Vide* Brewer and Delaroche.)

**De la Rive.** (*Vide* La Rive.)

**De la Rue.** (*Vide* La Rue.)

**De la Salle.** (*Vide* La Salle.)

**Delaunay, Louis.** *Born* 1740, *in the Netherlands; died* 1805 (*about*), *at Vienna.* (*Poggendorff*, i. 540.)

Lettre sur la Tourmaline. 4to. 1782

Minéralogie des Anciens. 2 vols. 8vo. (*From Poggendorff*, ii. 540.) *Bruxelles*, 1803

† **Delaunay, Veau.** Letter of M. Veau Delaunay, M.D., to M. Delamétherie, upon the production of the Muriatic Acid by means of Galvanism. 8vo. 2 pp. (*Phil. Mag.* xxvii. 260.) *London*, 1807

Manuel de l'électricité. 8vo. 270 pp. 13 plates. *Paris*, 1809

**Delaval, E. H.** Electrical Experiments and Observations. 4to. (*Phil. Trans.* 1739.) *London*, 1739

An account of the effects of Lightning, &c. 4to. (*Phil. Trans.* 1764.) *London*, 1764

† **Delesse, A.** Sur le pouvoir magnétique des minéraux et des roches. 8vo. 59 pp. (*Annales des Mines*, xiv. 81.) *Paris*, 1849

† Sur le pouvoir magnétique des Roches (suite). 8vo. 25 pp. (*Ext. du* tom. xv. 4 série, *des Annales des Mines*, 1849.) *Paris*, 1849

† **Delezenne, M.** Notes sur la polarisation. 8vo. 300 pp. 5 plates. *Lille*, 1835

* † Notes sur la Polarisation. 8vo. *Lille*, 1835

† Notions élémentaires sur les phénomènes d'induction. 8vo. 132 pp. 2 plates. (*Ext. de la Soc. R. de Lille. Mém. Séance du* 20 *Déc.* 1844.) *Lille*, 1845

† Additions aux notions élémentaires sur les phénomènes d'induction. 8vo. 153 pp. 2 plates. *Lille*, 1848

† Expériences sur les Piles sèches. 8vo. 24 pp. (*Ext. des Mém. de la Soc. R. des Sciences . . . de Lille.*) *Lille*

Sur la constitution et la suspension des nuages. (*From Gauthier-Villars Cat. Juin*, 1855.)

**Delille.** Nouvel examen de la Phosphorescence de l'Agarie et de l'Olivier. (*Bulletin de la Soc. d'Agricult. de l'Hérault, Fév.* 1837.) *Montpellier*, 1837

Phosphorescence des Plantes. 8vo. *Montpellier*

**Delius, Heinrich Friedrich von.** *Born July* 8, 1720, *at Wernigerode; died October* 22, 1791, *at Erlangen.*

Gedanken von der anziehenden elektrischen Kraft. *Wernigerode*, 1744

**Della Bella, Giovannantonio.** *Born August* 30, 1730, *at Padua; died November* 24, 1823, *at Padua.* (*Poggendorff*, i. 139.)

Trattato sopra l'utilità dei conduttori elettrici. (*Pogg.* i. 139.)

Noticias historicas, e praticas à circa do modo de defender os edificios dos ontrages dos raios. 8vo. *Lisboa*, 1773

Memoria i. ii. sobre a força magnetica. 4to. (*Mem. da Acad. Real das Sc. de Lisboa*, t., i. 35 and 116 pp.) *Lisboa*, 1780

*Note.—Lamont, Handbook, p.* 427, *says Della Bella discovered the law of magnetic attraction and repulsion before Coulomb.*

**Della Casa,** L. Considerazioni sulla elettricità atmosferica, ciel sereno; e sopra alcuni fenomeni che ne dipendono. Memoria . . . estratta dal vol. v. delle Mem. dell' Acad. delle Scienze dell' Istituto di Bologna. 4to. *Bologna*, 1854

Sulla causa delle Correnti indotte nei circuiti metallici. (*Mem. dell' Accad. delle Scienze dell' Istituto di Bologna*, vol. vii. 1857-58.) *Bologna*, 1857-58

Della Pausa elettrica. (*Accad. delle Scienze dell' Istit. di Bologna*, p. 71, an. 1858.) *Bologna*, 1858

Neue Methode, die meteorologischen Instrumente graphisch. zu machen. (*Mem. Accad. dell' Scienze dell' Istit. di Bologna*, vol. ix. 1858.) *Bologna*, 1858

† **Dell' Acqua,** C. Sul modo di ben servirsi dell' apparato elettro-magnetico di Wolff perfezionato dal fisico-macchinista C. Dell' Acqua. 8vo. 12 pp. *Milano*, 1857

† Norme pratiche per ben costruire ed applicare i Parafulmini. 4to. 37 pp. 1 plate (lith.) *Milano*, 1859

**Della Torre.** (*Vide* Torre, G. M. Della.)

**Delle Chiaje.** On the organs of the Torpedo. (*From Matteucci et Savi.*)

**Dellmann,** Friedrich. *Born* 1805.

† Abhandlung: Uber ein neues Elektrometer. 4to. 24 pp. *Coblenz*, 1842

† Über die Gesetzmässigkeit und die Theorie des Elektricitäts-Verlustes. 4to. 28 pp. *Kreuznach*, 1864

† Über Luft Elektricität, Nebel, und Höhenrauch &c. 8vo. 20 pp. *Kreuznach*, 1870

† **Del Muscio,** G. Dissertazione con cui si risponde a varj dubbj promossi contro la teoria dell' elettricismo del Franklin dal . . . Poli nelle sue "Riflessioni intorno agli effetti di alcuni fulmini. 8vo. 66 pp. *Napoli*, 1774

**Delor.** (*Vide* Dalibard.)

**Demarco,** S. Il fluido elettrico applicato a spiegare i fenomeni della natura. *Ancona*, 1771

**De Martino.** (*Vide* Calamai &c.)

**Demonferrand,** Jean Baptiste Firmin. *Born* 1795; *died Jan.* 22, 1844, *at Paris.*

† Manuel de l'électricité dynamique, ou traité sur l'action mutuelle des conducteurs électriques et des aimants. 8vo. 210 pp. 5 plates. *Paris*, 1823

† Trattato d'Elettricità dinamica, ossia dell' azione delle correnti elettriche tra loro e sopra le calamite, &c. . . . opera . . . tradotta, per la prima volta, dal Silv. Gherardi, con Note ed Aggiunte. 8vo. 244 pp. 6 plates. *Bologna*, 1824

† Handbuch der dynamischen Elektricität. . . Bearbeitet von M. G. T. Fechner. 8vo. 220 pp. 5 plates. *Leipzig*, 1824

(*Vide* also Ampère.)

† **Demonville.** Mémoire explicatif des phénomènes de l'aiguille aimantée, pour faire suite à la question de longitude, etc. 8vo. 48 pp. 2 plates. *Paris*, 1833

**Dempp,** K. W. Vollstandiger Unterricht in der Tecnik Blitzableitersetzung, nach 66 Modellen. 8vo. *Munchen*, 1842

**Dempster,** G. An account of the Magnetic Mountains of Cannay, an island of ten or twelve miles. (*Trans. Soc. Antiquaries of Scotland*, i.)

**Denys,** G. L'art de naviguer perfectionnée par la connaissance de la variation de l'imant, ou Traité de la variation de l'aiguille aimantée. (*From Poggendorff*, i. 550.) *Dieppe*, 1666

† **Denza,** Franc. Le aurore polari del 1869, ed i fenomeni cosmici che le accompagnarono. Memoria. 8vo. 42 pp. *Torino*, 1869

**Denza, Franc.**—*continued.*

† Aurore boreale et autres phénomènes météorologiques observés en Piémont, le 3 janvier, 1870. 8vo. 7 pp. *Torino*, 1870

† Norme per osservazioni delle meteore luminose; con in fine il modulo pel registro delle stelle cadenti. 8vo. 29 pp. *Torino*, 1870

**Deratte.** (*Vide* Roucher Deratte (or De Ratte).

**Deregis, G.** Sopra gli istrumenti di osservazione ad indicazione continua. *Novara*, 1852

† **Derham, W.** An account of some Magnetical experiments and observations. 4to. (*Phil. Trans.* xxiv. for 1704-5, pp. 2136 and 2138.) *London*, 1706

† Extract of several letters from different parts of Europe, relating to the Aurora Borealis seen Oct. 19, N.S. 1726. 4to. 4 pp. (*Phil. Trans. for* 1728, p. 453.) *London*, 1728

† Of the Meteor called the Ignis Fatuus, from observations made in England by Derham and others in Italy, communicated by Sir Thomas Derham, Bart., 4to. 11 pp. (*Phil. Trans.* xxxvi. 204.) *London*, 1729-30

† A letter to Sir Hans Sloane containing a description of some uncommon appearances observed in an Aurora Borealis by Derham. 4to. 2 pp. (*Phil. Trans.* xxxvi. 137.) *London*, 1729-30

† **Dering**, G. E. Improvements in the Electric Telegraph. 8vo. 11 pp. 1 plate. (*Specification of Patent, &c.*) *London*, 1850-1

**De Rochas.** (*Vide* Breton and De Rochas.)

**Desaguliers**, Jean Théophile. *Born March* 12, 1683, *at La Rochelle; died February* 29, 1744, *at London.*

Course of Experimental Philosophy. 4to. 1 vol. (*From Kruniz*, p. 34. *Watt*, p. 299.) 1725

*There are many editions. The edition of* 1719 *contains no electricity. The first edition of his own seems to be that of* 1725; *2nd*, 1727; *3rd*, 1734; *4th*, 1745; *5th*, 1763. (*Vide Watt.*) *There is a French version of* 1753 *in* 4*to.*

An attempt to solve the phenomena of the rise of Vapours, formation of Clouds, and descent of Rain. 4to. (*Phil. Trans.* an. 1729, p. 6.) *London*, 1729

An account of some Magnetical experiments. 4to. (*From Reuss, Repert.* iv. 375. In *Phil. Trans.* 1738, p. 385.) *London*, 1738

† Some thoughts and experiments concerning Electricity. 4to. 8 pp. (*Phil. Trans.* xli. 186.) *London*, 1739-40-41

† Experiments made before the Royal Society, Feb. 2, 1737-8, by J. T. D., and Feb. 9 and Feb. 16. 4to. 7 pp. (*Phil. Trans.* xli. 193.) *London*, 1739-40-41

† An account of some Electrical experiments made before the Royal Society on the 16th of Feb. 1737-8. 4to. 9 pp. 1 plate. (*Phil. Trans.* xli. 200.) *London*, 1739-40-41

† An account of some Electrical experiments made at His Royal Highness the Prince of Wales's House at Cliefden on the 15th April, 1738, where the Electricity was conveyed 420 feet in a direct line. 4to. 2 pp. (*Phil. Trans.* xli. 209.) *London*, 1739-40-41

† Some things concerning Electricity. 4to. 4 pp. (*Phil. Trans.* xli. 634.) *London*, 1739-40-41

**Desaguliers,** Jean Theophile—*continued.*

† An account of some Electrical experiments made before the Royal Society the 22nd of Jan., 1740-41. 4to. 3 pp. (*Phil. Trans.* xli. 637.) *London,* 1739-40-41

† Electrical experiments made before the Royal Society, March 15, 1740-1. 4to. 2 pp. (*Phil. Trans.* xli. 639.) *London,* 1739-40-41

† Several Electrical experiments, made at various times, before the Royal Society by J. T. D. 4to. 6 pp. (*Phil. Trans.* xli. 661.) *London,* 1739-40-41

Account of some Electrical experiments. 4to. (*Phil. Trans.* 1739, No. 266, p. 200; 1741, Nos. 268, 269, 270, pp. 637, 639, and 661; 1742, p. 14.) *London,* 1739-41-42

Some further observations, &c. 4to. (*Phil. Trans.* abd. viii. 435.) *London,* 1741-2

Some conjectures concerning Electricity, and the rise of vapours. 4to. (*Phil. Trans.* 1742, p. 140.) *London,* 1742

*He supposed particles of "Pure Air" to be electric bodies, and always in a vitreous state.—Qy. if by "Pure Air" he meant the oxygen of the atmosphere (as Priestley did), has not this old theory some relation with the modern Ozone theory (electrical oxygen)?*—F. R.

† Dissertation sur l'Electricité des corps; qui a remporté le prix . . . Acad. Rle. de Bordeaux. 4to. 28 pp. *Bordeaux,* 1742

† Dissertation concerning Electricity. 8vo. 50 pp. *London,* 1742

French version of his Course of Experimental Philosophy. 4to. 1753

(*Vide* also Eames, John.)

**Desains,** Edouard François. *Born July 26, 1812, at St. Quentin, Dép. de l'Aisne.*

† Thèse de Phys. Sur la mesure des Courants électriques. 4to. 22 pp. 1 plate. *Paris,* 1837

**De Saintot.** (*Vide* Cassius.)

**Desbordeaux.** Sur le moyen d'obtenir un courant constant avec la pile de Wollaston. 4to. (*Comptes Rendus,* xix. 273.) *Paris.*

**Descartes (Cartesius) René Du Perron.** *Born March 31, 1596, at La Haye, Touraine; died February 11, 1650, at Stockholm.*

Principia philosophiæ, iv. § 33. 4to. *Amstelodami,* 1656

Hat eine philosophische Theorie des Magnetismus gegeben, wonach schraubenformige Ströme vom Nordpol zum Südpol gehen sollen. Principia philosophiæ, iv. 133. (*From Lamont's Handbook,* p. 430.)

Principia philosophiæ. Pt. iv. *Amstelodami,* 1664

*Note.—Poggendorff* (i. 555) *says:* "*Discours de la méthode pour bien conduire sa raison et chercher la vérité dans les sciences; plus la Dioptrique, les Météores et la Géométrie.* 1 vol. 4to. *Leyd.* 1637. *Latinisch, und vom Verf vermehrt, Amstelod.* 1644."

**De Saint Amans.** (*Vide* Saint Amans.)

**Deshais.** (*Vide* Anon. Medical Electricity, 1763.)

**Deschanel.** (*Vide* Privat-Deschanel.)

**Deschanel.** Natural Philosophy: an elementary treatise. Translated and edited, with extensive additions, by Prof. Everett, D.C.L., of Queen's College, Belfast. In four parts. 719 engravings. Part iii. Electricity and Magnetism. *London,* 1872

**Desgranges,** (Secretary). Compte rendu des travaux de l'Acad. 2me an. 4me Simestre. 8vo. (*Bordeaux Acad. Actes*, 2me an. pour 1839.) *Paris*, 1840

**Deshais.** (*Vide* Sauvages, 1749.)

**Desmarets,** Nicolas. *Born September* 16, 1725, *at Soulaines, Dép. de l'Aube; died September* 28, 1815, *at Paris.*

† Expériences physico-méchaniques . . traduites de M. Hawksbee par feu M. de Brémond . . revues et mises au jour, avec un Discours préliminaire des Remarques et des Notes par M. Desmarets. 2 vols. 12mo. 7 planches. *Paris*, 1754

(*Vide* Hawksbee.)

**Desmortiers,** Lebouvier. Observations sur le danger du Galvanisme dans le traitement des maladies. 4to. (*Journ. de Phys.* 1801, p. 467.) *Paris*, 1801

† Examen des principaux systèmes sur la nature du fluide électrique; et sur son action dans les corps organisés et vivants. 8vo. 360 pp. 2 plates. *Paris*, 1813

**Désormes,** C. B. Expériences et observations sur les phénomènes physiques et chimiques que présente l'appareil de Volta. 8vo. (*Ann. de Chim.* xxxvii. 1801, p. 284.) *Paris*, 1801

**Désormes et Hachette.** Mémoire pour servir à l'histoire de cette partie de l'électricité qu'on nomme Galvanisme. 8vo. (*Ann. de Chim.* xliv. 1802.) *Paris*, 1802

Doubleurs de l'Electricité. 8vo. (*Ann. de Chim.* xlix. 1804.) *Paris*, 1804

† **Desparquets.** L'électricité appliquée au traitement des malades. Manuel pratique. 8vo. 107 pp. *Paris*, 1862

† **Despine.** Sur les Grêles en 1844. 4to. 5 pp. (*Ext. de la Gazette de l'Association Agricole*, No. 23, 3me Année.) *Turin*, 1845

† Recherches sur les Grêles auxquelles sont exposés les Etats de terre-ferme de S. M. le Roi de Sardaigne. 4to. 22 pp. (*Gazette de l'Association Agricole*, 1844, Nos. 29 and 30.) *Turin*, 1844 ?

† Observations sur les Grêles tombes en 1840 dans les Etats de Terre Ferme de S. M. le Roi Sardaigne, d'après les renseignements recueillis par la Commission supérieure de statistique. 4to. 39 pp. (*Turin Acad. Mém.* 2me serie, t. vii.) *Turin*

† **Desplats,** V. Physique Médicale. Lois générales de la production et de la propagation du courant Electrique. Thèse. 8vo. 81 pp. *Paris*, 1863

**Despretz,** César Mansuète. *Born May* 4, 1791, *at Lessines, Belgium; died March* 15, 1863, *at Paris.*

Traité de physique. *Bruxelles*, 1837

Sur l'action galvanique des métaux. 4to. 31 pp. *Paris*

† Note sur la déviation de l'aiguille aimantée, par l'action des corps chauds et froids. 4to. 6 pp. (*Ext. des Comptes Rendus*, xxix. *Séances des* 27 *Août et* 10 *Sep.* 1849.) *Paris*, 1849

† Note relative à l'Electricité développée dans la contraction musculaire, &c. 4to. 6 pp. (*In Comptes Rendus*, 1849, 1re série, xxviii. No. 22, p. 653.) *Paris*, 1849

Sur la correction qu'il faudrait apporter à la formule exprimant la valeur de l'intensité électrique avec la boussole des tangentes. 4to. (*Comptes Rendus*, xxxv. 449. *Vide Wiedemann*, ii. 196.) *Paris*, 1852

Des applications de l'électricité aux arts et à l'industrie. 8vo. 320 pp. 8 plates. (*In Brux. Acad.* 1859.) *Bruxelles*, 1859

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Observations made during a voyage round the world, on Physical Geography, &c. 4to. 649 pp. of text. (*Opuscoli Scelti in* 4to. ii. 385, *on Auroræ.*) *London*, 1778

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**Forster**, Thomas Ignatius Maria. *Born November* 9, 1782, *at London; died about* 1850.

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† Lettera del . . . Fortis allo Spallanzani su gli sperimenti di Pennet. 4to. 15 pp. (*Opus. Scelt.* xiv. 259.) *Milano*, 1791

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† 1. Observations on . . . the Needle at the Whale Fish Islands, by Foster. 2 pp.

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4. Dip of the magnetic Needle observed at Woolwich and at different stations within the Arctic Circle, by (?) 3 pp.

5. Observations on the diurnal changes in the position of the horizontal Needle, under a reduced directive power, at Port Bowen, 1825, by Foster. Communicated January 12, 1826. 4 plates. 48 pp.

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**Foster,** H. A comparison of the changes of magnetic intensity . . . in the dipping and horizontal Needles at Trewrenburgh Bay. 4to. 9 pp. (*Phil. Trans.* p. 303, 1828.) *London*, 1828

**Foster,** G. C. (*Vide* Lardner, 1866.)

**Fothergill,** John. *Born October* 12, 1712, *at Carr End, Yorkshire; died December* 26, 1780, *at London.*

† An extract of John Fothergill his Essay upon the origin of Amber. Read March 1, 1743-4. 4to. 5 pp. (*Phil. Trans.* xliii. 21.) *London*, 1744

Account of the Magnetical machine contrived by the late Dr. Gowin Knight. 4to. (*Phil. Trans.* 1776, p. 591.) *London*, 1776

† **Fotheringhame,** T. Directions for ascertaining and counteracting the Local Attraction of the Mariner's Compass by day and by night on board all vessels (steamers included) at sea, or in a roadstead, and on land, with cases . . . to which is added a few practical hints on the Variation of the Compass and the utility of the Lead and Charts, with illustrations. 4to. 60 pp. *London*, 1837

**Foucault,** Jean Bernard Léon. *Born September* 19, 1819, *at Paris; died February* 11, 1868, *at Paris.*

Appareil destiné a rendre constante la lumière émanant d'un charbon placé entre les deux poles d'une pile. 4to. (*Comptes Rendus*, xxviii. 68. *Paris*, 1849

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† De la chaleur produite par l'influence de l'aimant sur les corps en mouvement. 4to. 2 pp. *Paris*, 1855

Etude sur le pendule à oscillations électro-continues. 8vo. 20 pp. *Amiens*, 1856

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**Fourcroy,** Antoine François de. *Born June* 15, 1755, *at Paris; died December* 16, 1809, *at Paris.*

Discours à la séance publique de l'Ecole de Médecine, Paris. 4to. *Paris*, 1801

† Memoir on the Stones which have fallen from the Atmosphere, and particularly near Laigle, in the department of L'Orne, on the 26th of April last. Read by C. Fourcroy in the Institute, June 19th, 1803. 8vo. 7 pp. (*Phil. Mag.* xvi. 299.) *London*, 1803

† Mémoire sur la nature de la fibre musculaire, et sur le siège de l'irritabilité. *Paris.*

(*Vide* also Vauquelin).

† **Fourcy,** E. de. Rapport sur Appareil de Prudhomme. (*Vide* Prudhomme.)

**Fournet.** Observations sur la distribution des Orages dans le département du Rhône. 8vo. *Lyon*, 1841

† Faits pour servir à la théorie de la Grêle. 4to. 10 pp. (*An. . . . Soc. Agricult.* vi. 131.) *Lyon*, 1843

Aperçus sur le magnétisme des minéraux et des roches. (*Ann. de la Soc. d'Agriculture, &c. de Lyon*, 1848.) *Lyon*, 1848

† **Fournet et Benoit.** Grêles du département du Rhône, Dégats, périodicité, directions des orages à grêles. 8vo. 95 pp. 2 plates. *Lyon*, 1869

**Fowler,** Thomas. *Born January* 22, 1736, *at York; died June* 22, 1801, *at York.*

A remarkable case of the morbid effects of Lightning successfully treated. (*Medical and Philosophical Commentary by a Society of Physicians in Edinburgh*, vol. vi.) *Edinburgh*

A case of an obstinate Quartan Ague cured by Electricity. (*Mem. Med. Soc. of London*, iii.)

† **Fowler,** Richard. Experiments and Observations relative to the influence lately discovered by M. Galvani . . . 8vo. 176 pp. *Edinburgh*, 1793

**Fowler.** (*Vide* Monro and Fowler.)

**Fownes,** G. Manual of Chemistry, by Jones and Hoffman. 8th edition. 12mo. *London*, 1861

Manual of Elementary Chemistry, theoretical and practical. 9th edition. Thick 12mo. 1863

**Fox,** R. W. Description and use of a Dipping-needle Deflector, invented by Robt. Were Fox, Esq. By T. B. Jordan, instrument maker. 8vo. 10 pp. 1 plate. (*Annals of Electricity.*) *London*

† On the variable intensity of Terrestrial Magnetism, and the influence of the Aurora Borealis upon it. 4to. 9 pp. (*Phil. Trans. for* 1831, p. 199.) *London*, 1831

† Notice of some experiments on Subterranean Electricity made in Penzance Mine, near Falmouth. 8vo. 6 pp. (*Trans. Royal Cornwall Polytechnic Society.*) *Falmouth*

† **Fozembas.** Mémoire sur l'électro-moteur. Dédié à MM. les Médecins. 8vo. 16 pp. *Paris*, 1833

† **Fragneau.** Appareil, accidents, chemins de fer. (*Vide* Abria.) *Bordeaux*, 1853

**Franceschi,** G. La Elettricità animale nuovo elemento filosofico della medicina. 8vo. 96 pp. *Ancona*, 1841

**Franchot.** "Pendule a mouvement continu de M. Franchot."

*Note.—This was applied to improve Foucault's illustration of the Earth's rotation. Moigno describes the principle, &c., but gives no notice of where and when it was first described.*

† **Francis.** G. Electrical experiments, &c. 8vo. *London*, 1844

Electrical experiments. 5th edition. 8vo. 91 pp. Engravings and cuts. *London*, 1850

**Franklin,** Benjamin. *Born January* 17, 1706, *at Governor's Island, near Boston; died April* 17, 1790, *at Philadelphia.*

There are numerous editions and reprints of Franklin's Electrical works, &c. The date of his first letter is the 28th July, 1747. (*Vide Priestley, Hist.* 5th edition, p. 142.)

Letter concerning the Effects of Lightning. (*Phil. Trans.* 1751, p. 289.) *London*, 1751

New experiments and observations on Electricity, &c., in letters to and edited by Collinson. Part i. 4to. *London*, 1751

† Expériences et Observations sur l'Electricité. Traduit de l'anglais. 1st edit. 8vo. 222 pp. 1 plate. *Paris*, 1752

Letter concerning an Electrical Kite. (*Phil. Trans.* 1752, p. 505.) *London*, 1752

† New Experiments and Observations in letters to Collinson. Enlarged by Part ii. 1752

† New Experiments and Observations communicated to Collinson (and read at the Royal Society). To which are added a Paper, by Canton, and another (in Defence of Franklin against Nollet) by Colden. Part iii. 4to. 44 pp. *London*, 1754

† New Experiments and Observations in letters to Collinson. Enlarged by Part iii. 4to. 154 pp. 1 plate. *London*, 1754

*Note.—This volume contains the second edition of Parts* i. *and* ii., *and an edition not named of Part* iii. (*all dated* 1754). *The second letter of this second edition* (*to Collinson*) *should contain* (*at* p. 12) *a footnote which appeared in the first edition, wherein Franklin very kindly acknowledges a first suggestion by Hopkinson relative to the electrical property of Points in dissipating a charge. Kuhn* (*N. Entdeck. f.* 19) *refers to the* Experiment *of Hopkinson, and gives particulars not mentioned by Franklin, but no indication of where first described.*

**Franklin,** Benjamin—*continued.*

† **New Experiments** and Observations . . . in several letters to Collinson. Part II. 2nd edition. 4to. 23 pp. *London* (?) 1754

**Supplemental Experiments.** Part iii. 4to. *London*(?) 1754

**Electrical Experiments,** made in pursuance of those by John Canton, with explanation. 4to. (*Phil. Trans.* 1755, p. 300. *London*, 1755

† **Expériences** et Observations sur l'Electricité . . . Traduit de l'angloise. Revue, corrigée, et augmentée d'un supplément du même auteur, avec des notes et des expériences nouvelles, par M. D'Alibard. 2e édition. 2 vols. 12mo. 1 plate. *Paris*, 1756

† **Briefe** v. d. Elektricität a. d. Engl. 8vo. *Stockholm*, 1758

**Briefe** v. d. Elektricität uberst. nebst Anmerkungen von Wilcke. 8vo. xxiv. and 354 pp. 1 plate. *Leipzig*, 1758

**An account** of the effects of Electricity in paralytic cases. 4to. (*Phil. Trans.* 1758, p. 695.) *London*, 1758

† **New Experiments** and Observations on Electricity made at Philadelphia . . . and communicated in several letters to P. Collinson. Part i. 3rd edition. 4to. 86 pp. 1 plate. 1760

**Physical and Meteorological Observations,** Conjectures, and Suppositions. 4to. (*Phil. Trans.* 1765, p. 182.) *London*, 1765

**New Experiments** and Observations in letters to Collinson, enlarged by letters and papers on other subjects. 4to. 500 pp. 1766

† **Experiments** and Observations on Electricity . . . to which are added letters, &c., on Philosophical subjects; the whole corrected, &c. . . and now *first* collected into one volume. 4th edition. 4to. 496 pp. *London*, 1769

† **Letter** from Dr. B. Franklin to D. Hume, Esq., on the method of securing houses from the effects of Lightning. 8vo. 15 pp. *Edinburgh*, 1771

† **Œuvres** de Franklin, traduites de l'anglais, sur la 4e édition, par Barbeu Dubourg, avec des additions nouvelles. . . 2 vols. 4to. *Paris*, 1773

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† Elogio di Ambrogio Fusinieri, letto all'Accad. Olimpica di Vicenza, 4 Feb. 1855 dal Dr. F. S. Beggiato, Presidente. 4to. 29 pp. *Vicenza*, 1855

(*Vide* also Zamboni and Fusinieri.)

**Fuss, Nicolaus von.** *Born January* 30, 1755, *at Basle; died January* 4 (*N. St.*) 1826, *at St. Petersburg.*

† Observ. et Expér. sur les Aimants artificiels, principalement sur la meilleure manière de les faire. 4to. 2 plates. 38 pp. (*Acta Petrop.* ii. 35.) *Petersburg*, 1778

**Futerand, Pouzin.** De l'influence d'un Orage sur trois Epilepsies vermineuses. 8vo. (*Montpellier, Acad. Recueil des Bulletins*, vol. vi. p. 345.) *Montpellier*, 1815 ?

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**G., W. M.** (*Vide* Anon. Electricity.) 1823

**G., S.** (*Vide* Anon. Electricity.) 1838

**Gabler, Matthias.** *Born February* 24, 1736, *at Spalt, Franken; died March* 30, 1805, *Wembdingen.*

Theoria Magnetis. 8vo. (*From Young*, p. 437.) *Ingolst.* 1781

**Gachet.** Notice sur deux Météorolites-Echantillons. (*From Bordeaux Acad.*) *Bordeaux*, 1738

**Gadd, Peter Adrian.** *Born April* 12, 1727, *at Birkala; died August* 11, 1797, *at Abo.*

De originaria corporum electricitate. 4to. *Aboæ*, 1769
(*Note.—Poggendorff*, i. 826, *says*: "*Obss. chimico-physicæ de originaria corporum mineralium electricitate.*")

† **Gaeta R.** Lettera ad un suo amico, sulle scariche elettriche senza arco condut-tore. 4to. 12 pp. (*Opusc. Scelt.* vi. 247.) *Milano*, 1783

**Gaiffe.** Constructed a little apparatus by which a small pump can be set in motion by an electro-magnetic motor. (*From Carl*, p. 287.)

**Gaillard.** Expériences galvaniques. (*Mém. de la Société médicale d'Emulation*, i. 235.) *Paris*

† **Gaimard, P.** Voyages en Scandinavie, &c., pendant les années 1838-39-40 sur la Recherche . . . *Magnétisme terrestre*, par Lottin, Bravais, Lilliehook, Siljestrom, Meyer, Delaroche, Poncié, le Capitaine Tabvere, &c. 3 vols. 4to. 8 plates. *Paris*

† Voyages en Scandinavie, &c., pendant les années 1838-39-40 sur la Recherche. *Aurores boréales*, par Lottin, Bravais, Lilliehook, et Siljestrom. 1 vol. 4to. 12 plates. *Paris*

† Voyages en Islande et Groenland, pendant les années 1835 et 1836 sur la Recherche. *Physique*, par M. Victor Lottin. 1 vol. 4to. *Paris*, 1838

**Galilei, Galileo.** *Born February* 18, 1564, *at Pisa;" died January* 8, 1642, *at Arcetri, Tuscany.*

Opere. 3 vols. 4to. (*From Arago's Sale Cat.* p. 63.) *Firenze*, 1718

Opere di. (Tom. iii. p. 355. A letter dated November 16, 1607, on piece of Loadstone.) (*Zantedeschi in Bibliot. Ital.* lxxxvi. 135.) *Padua*, 1744

**Galizi, D.** Dissertazione dell' Aurora-boreale. 12mo. (*Calogera Nuova Raccolta* xxxix. 64.) *Venezia*

† **Galle, J. G.** Über die am 11 Decbr., 1852, in Schlesien beobachtete Feuerkugel. 4to. 7 pp. (*Acad. Breslau*, 1853, p. 187.) *Breslau*, 1853

† Über die Bahn des am 30 Januar, 1868, beobachteten und bei Pultusk im Königreiche Polen als Steinregen niedergefallenen Meteors durch die Atmosphäre. 8vo. 41 pp. *Breslau*, 1868

† Katechismus der elektrischen Telegraphie. 8vo. 191 pp. *Leipzig*, 1855

Katechismus der elektrischen Telegraphie. 2. Vermehrte und verbesserte Auflage. 8vo. 212 pp. *Leipzig*, 1859

Katechismus der elektrischen Telegraphie. 3. Vermehrte und verbesserte Auflage. 8vo. 232 pp. *Leipzig*, 1864

† **Galle, Ludw.** Katechismus der elektrischen Telegraphie. Von Ludw. Galle Vierte wesentlich verm u. verb. Aufl. bearb. v. Prof. Dr. Karl Ed. Zetzsche. 4to. 372 pp. *Leipzig*, 187C
(*This forms part, No.* 21, *of Weber's Illustrirte Katechismen.*)

† **Galle, M.** Beyträge zur Erweiterung und Vervollkommnung der Elektricitätslehre. 8vo. 280 pp. 3 plates. *Salzburg*, 1813

Beiträge zur Erweiterung . . . der Elektricitätslehre. 2 vols. 8vo. (*From Dove*, p. 215.) *Salzburg*, 1816

† **Galletti, B.** et **Jounin, A.** De l'électricité en général et de ses applications en particulier. *Première Partie.* 8vo. 31 pp. *Paris*, 1844

**Gallini, Stefano.** *Born March* 22, 1756, *at Venice; died May* 26, 1828, *at Padua.*

† Se e quanto il fluido elettrico o galvanico influisca nella produzione de' fenomeni della vita, sopra tutto ne' corpi animali. Memoria. Ricevuta li 12 Giugno, 1819. 4to. 22 pp. (*Mem. della Soc. Ital.* xviii. 232.) *Modena*, 1820

**Gallitzin, Dmitri Alexewitsch Fürst.** *Born December* 21, 1738, *in Russia; died March* 21, 1803, *at Brunswick.*

Method of distinguishing the Pos. and Neg. states of Electricity by means of "poudre de *résine* répandue sur un carreau de verre." 4to. (*Mem. de l'Acad. Imp. et Roy. de Bruxelles*, tom. iii. p. 14. *Bruxelles*

(*Note.—Is this the experiment described by him in his* "Lettre sur quelques objets de l'Electricité, 1778"?)

† Lettre sur quelques objets d'Electricité addressée à l'Académie Imple. des Sciences de St. Pétersbourg. 4to. 16 pp. (*Accad. Petrop.*) *Petersburg*, 1778

† Lettre sur quelques objets de l'Electricité. 4to. 10 pp. 1 plate. (*Volta's copy.*) *La Haye*, 1778

† Nuovo fenomeno dell' Elettricità. 4to. 1 p. (*Opusc. Scelti*, ii. 305.) *Milano*, 1779

Sendschreiben a. d. Akad. zu St. Petersburg, über einige Gegenstande d. Elektr. 8vo. 3 plates. *Munster*, 1780

Sur l'Electricité. 4to. (*Journ. de Phys.* xxi. 1782.) *Paris*, 1782

Sur la forme des conducteurs électriques. 4to. (*Journ. de Phys.* xxii. 1783.) *Paris*, 1783

Sur quelques expériences de M. Achard. 4to. (*Journ. de Phys.* xxii. 1783.) *Paris*, 1783

† Observations sur les conducteurs. Addressée à l'Acad. de Bruxelles. Date July 6, 1778, La Haye. 4to. 10 pp. 1 plate. (*Volta's copy.*) *La Haye*, 1778 ?

† Observations sur l'Electricité naturelle par le moyen d'un Cerf Volant. 4to. 6 pp. 1 plate. (*Addressée à l'Acad. de Petersb. Date September* 25, 1778.) (*Volta's copy.*)

**Gallucci, G. P.** Modus fabricandi horaria mobilia permanentia cum acu magnetica. *Venet.* 1596

† **Galton, F.** The Telotype, a printing electric Telegraph. 8vo. 32 pp. 4 plates. *London*, 1850

**Galvani, Luigi (Aloisio).** *Born September* 9, 1737, *at Bologna; died December* 4, 1789, *at Bologna.* (*Pogg.* i. 839.)

† Propositiones de Electricitate, &c. 4to. 23 pp. 1 plate. *Bononiæ*, 1786

† De viribus electricitatis in motu musculari. Commentarius: cum *Aldini* dissertatione et notis. 4to. 80 pp. 3 plates. *Mutinæ*, 1792

† Lettera al Carminati sull' elettricità animale. 8vo. 15 pp. (*Giorn. Fis. Med.* ii. 131.) *Pavia*, 1792

† Transunto della dissertazione del . . . Galvani . . . sulle forze dell' Elettricità nei moti muscolari. 4to. 29 pp. 1 plate. (*Opusc. Scelt.* xv. 113.) *Milano*, 1792

(*Note.—This translation is by Soave, who adds footnotes, the last of which contains:* "*Articolo di lettera, degli* 8 *Marzo* (1792), *dell' Aldini.*")

Abh. ü. d. Kräfte d. their Elekt. auf d. Bewegung d. Muskeln u.d. Schriften v. Valli, Carminati u. Volta üb. diesen Gegenstand. überst. v. J. Mayer. 8vo. *Prague*, 1793

**Galvani, L.**—*continued.*

Dell' uso e dell' attività dell' arco conduttore nelle contrazioni dei muscoli. 8vo. 168 pp. *Bologna*, 1794

*Note.—This was erroneously supposed to be Aldini's work. The Supplement is not dated. It must have been printed in* 1794, *or before the* 12*th January*, 1795, *for F. Caldani, in his* "Lettera . . circa le nuove ricerche" . . *dated* 12*th January*, 1795, *refers to it.* (*Vide Aldini.*)

† De viribus electricitatis in motu musculari. Commentarius. 4to. 56 pp. 4 plates. (*Comment. Bonon. Scient.* vii. 363.) *Bononiæ*, 1796

† Memorie sulla elettricità animale . . al L. Spallanzani . . Aggiunte alcune elettriche esperienze di G. Aldini. 4to. 105 and 3 pp. 2 plates. (*Brugnatelli's copy.*) *Bologna*, 1797

Memorie . . alli Spallanzani per le Stampe del Sassi Bologna, anno 1797. *Modena*, 1841

† Opere edite ed inedite del Prof. Luigi Galvani raccolte e publicate per cura dell' Accad. delle Scienze dell' Istit. di Bologna. (*Edited by Gherardi, who added an Appendix, or 2nd volume.*) 4to. 120 and 505 pp. Portrait and Autographs. *Bologna*, 1841

Aggiunta alla collezione delle opere di Galvani. (*Edited by Gherardi.*) 4to. *Bologna*, 1842

A German translation, with some additional observations, by Voight (of Galvani's works).

† Elogio di Luigi Galvani detto da Mle. Medici nel Teatro anatomico dell' antico Archiginnasio di Bologna. . . 4to. 29 pp. *Bologna*, 1845

Predieri, E. Di alcuni Autografi del Galvani ultimamente rinvenuti. 4to. *Bologna*, 1862

Eloges historiques de, par Alibert, &c. (*Vide Alibert.*) *Paris*

† Portrait Incisione. Marchi fecit.

† **Galvanic Society** (Paris). Communications to, by Winckler, Abrial (a Mem. of Pfingsten), Mojon, Nauche, Gautherot, Izarn, and the Commission of Medical Application (of Galvanism). 8vo. 2 pp. (*Phil. Mag.* xv. 281.) *London*, 1803

† On 28th May made, for the second time, some experiments on a large scale at the Veterinary School of Alfort. (*Phil. Mag.* xvi. 90.) 1803

† Notice of Experiments made by the Galvanic Society of Paris on the discovery announced by M. Pacchiani, of the composition of the Muriatic acid. 8vo. 5 pp. (*Ann. d. Chim.* lvi. ; *Phil. Mag.* xxiv. 172.) *London*, 1806

† Account of its Proceedings during the years 1804 and 1805, read at its sitting 6th February, 1806. 5 pp. (*Phil. Mag.* xxiv. 183.) *London*, 1806

† Notices of Experiments made by the Galvanic Society of Paris, drawn up by M. Riffault, one of the members. 8vo. 3 pp. (*Ann. d. Chim.* lvi. 61.) (*Phil. Mag.* xxv. 260.) *London*, 1806

**Gamaches**, Etienne Simon. *Born about* 1672, *at Meulan; died February* 7, 1756, *at Paris.*

Dissertation sur le Méchanisme de l'Electricité. (*Mém. de Treves*, Janv. 1753. vol. ii. art. 9; and in his *Dissertations Littéraires et Philosophiques*, à Paris. 1755. 12mo.) 1755

† **Gamble**, J. Observations on Telegraphic experiments, or the different modes which have been or may be adopted for the purpose of distant communication. 4to. 20 pp. 1 plate. *London, n. d.*

**Gandolfi**, B. Lettera al Sig. D. Morichini sull' ottima ed economica costruzione delle macchine elettriche. (*Antologia Romana*, 1797.) *Roma* 1797

**Gandolfi**, B.—*continued.*

Dissertazione sopra le condizioni necessarie perché una macchina elettrica sia capace del massimo effetto. (*Giorn. Lett. di Napoli*, 1802.) *Napoli*, 1802
(*Vide* also Medici and Gandolfi.)

**Gann.** (*Vide* Mackrell, Gann and Pollock.)

† **Gannett**, C. An account of a curious and singular appearance of the Aurora-borealis on the 27th March, 1781. 4to. 4 pp. (*Mem. Amer. Acad.* Old Series, vol. ii. part i. p. 136.) *Boston*, 1793

† An historical Register of the Aurora-borealis from August 8, 1781, to August 19, 1783. 4to. 7 pp. (*Mem. Amer. Acad.* Old Series, i. part ii. p. 327.) *Boston*, 1785

† **Ganot**, A. Trattato elementare di fisica sperimentale ed applicata, e di meteorologia . . 7a edizione Italiana, sulla 10a edizione originale del 1862, aumentata di 44 nuove figure e dei più recenti studii . . per cura de C. Hajech e. V. Masserotti. 8vo. 944 pp. *Milano*, 1862

Traité élémentaire de Physique expérimentale et appliquée et de Météorologie, suivi d'un recueil nombreux de problèmes. 18mo. 857 pp. *Paris*, 1862

Traité élémentaire de Physique expérimentale et appliquée et de Météorologie. 1864

Physics experimental and applied. Edited by E. Atkinson. For the use of Colleges and Schools.

**Garcés de Marsilla**, D. A. Manual de telegrafía electrica para uso de empleados en los telégrafos eléctricos militares de Calaluña. 8vo. 40 pp. 1 plate. *Madrid*, 1853

**Gardane.** Conjectures sur l'Electricité médicale, avec des recherches sur la colique métallique. 12mo. (*From Manduit*, p. 249.) 1768

Conjectures sur l'Electricité médicale, avec des recherches sur la colique métallique. (*From Guitard.*) *Paris*, 1778
(*Note.—Van Troostwyk and Krayenhoff say at* p. 159, 1768, *and at* p. 227, 1778.)

**Garde.** (*Vide* La Garde, De.)

**Gardini**, Anton. Beschreibung eines sehr empfindlichen Electrometers. (*Mayer's Samml. Physik. Aufsätze der Gesellsch. Böhmischer. Naturf.*, tom. iii. p. 393.)

**Gardini**, Giuseppe Francesco. *Born January* 22, 1740, *at Vascagliana, Province of Asti, in Piedmont; died May* 15, 1816, *at Asti.*

† L'applicazione delle nuove scoperte del fluido elettrico agli usi della ragionevole Medicina. . . Gandini. 8vo. 248 pp. *Genova*, 1774

† De effectibus electricitatis in Homine Dissertatio. 8vo. 141 pp. *Genuæ*, 1780

† De influxu electricitatis atmosphericæ in Vegetantia. Dissertatio ab Acad. Lugdunensi præmio donata an. 1782. 8vo. 157 pp. *Augustæ Taurinorum*, 1784

† De electrici ignis natura. Dissertatio. 4to. 236 pp. 1 plate. *Mantuæ*, 1792

† De electrici ignis natura ed. et præf. est J. Mayer. 8vo. 197 pp. 1 plate. *Dresden*, 1793

Abh. v. d. Natur. d. elek. Feuers. a.d. Lat. von J. G. Geisler. 8vo. *Dresden*, 1793

Descrizione d'un istrumento proprio per conoscere l'elettricità tanto giornaliera quanto spontanea degli uomini, &c. (*Giorn. scientifico, &c. Torino*, 1789.) *Torino*, 1789

Esperimenti fatti nel mese . . 1789 sopra l'elettricità spontanea degli uomini, &c. (*Giorn. scientifico, &c. Torino*, 1789.) *Torino*, 1789

Sulla differenza dell' azione dell' elettricità della macchina e della pila. 1806

De ratione qua distribuitur ignis electricus in diversorum corporum superficie. *Turin*, 1812

† **Gardini,** Guido. Esercitatione fisica tra li Sig. Studenti . . di Susa sulla elettricità, &c. . . 12mo. 45 pp. *Susa ?* 1798

† **Gardner,** D. Galvanic Experiments, by Mr. D. Gardner, Lecturer on Chemistry at the City Dispensary (to Mr. Tilloch). 8vo. 2 pp. (*Phil. Mag.* xxv. 364.) *London,* 1806

**Garipuy.** Mémoire sur un coup de Tonnerre arrivé près la ville de Castres. . . Réflexions sur les conducteurs électriques. (Lu 11 Avril, 1782.) 4to. (*Toulouse Acad.* 1re série, tom. ii. p. 188. *Toulouse,* 1784

**Garn,** J. A. De Torpedine recentiorum genere anguilla. 4to. *Witteb.* 1778

**Garnault.** (*Vide* Harris.)

**Garnier,** P. Modification apportée à l'indicateur dynamomètre de Watt. Nouveau mécanisme pour les communications télégraphiques au moyen de l'électricité. 4to. (*Comptes Rendus,* xxi. 526.) *Paris,* 1845

Note sur un nouveau système d'Horloges électrochrones. 4to. (*Comptes Rendus,* xxv 271, and xxix. 189.) *Paris,* 1847 *and* 1849

Télégraphe à Cadran. (*Table Comptes Rendus,* p. 235.)

† Cylindre automatique pour la composition et la transmission des signaux télégraphiques de Morse. M. P. Garnier contre M. G. Marqfoy, Arrêt de la Cour Impériale de Paris. 8vo. 15 pp. 1 plate. (*Extrait du Journal d'Invention.*) *Paris,* 1858

**Garo** (Professeur à Turin). Une lettre . . électricité. (*From Nollet.*) *Turin,* 1753

**Garrat,** A. C. Electro-physiology and Electro-therapeutics. 8vo. *Boston, U.S.,* 1860

† Medical Electricity, embracing Electro-physiology and Electricity as a Therapeutic, &c. . . 3rd edition, revised, &c. 8vo. 1103 pp. *Philadelphia,* 1866

**Garzoni,** Leond. Veneziano. A work (much praised) on the Nature of Magnetism. Before that of Gilbert.

(*Note.—Faure says (in reference to electrical matter, or having relation thereto): "Il Trattato del P. Leonardo Garzoni lodato dal Cabeo girò solo per le mani dei dotti inedito e non compiuto." "Morte interveniente," says Cabæus.*)

† **Gasc,** J. P. Mémoire sur l'influence de l'Electricité dans la fécondation des plantes et des animaux, &c. . . 4to. 63 pp. *Paris,* 1823

**Gasserus.** (*Vide* Peregrinus, Peter.)

**Gassendi,** Pierre. *Born January 22, 1592, at Champtercier, near Digne; died Oct. 24, 1655, at Paris.*

Opera omnia ed. hab. Lugduni Bat. Folio. *Lugduni,* 1658

**Gassicourt.** (*Vide* Cadet de Gassicourt.)

† **Gassiot,** J. P. An account of Experiments made with the view of ascertaining the possibility of obtaining a Spark before the circuit of the Voltaic battery is completed. (Read December 19, 1839.) 4to. 10 pp. (*Phil. Trans. for* 1840, part i. p. 183.) (*Faraday's copy.*) *London,* 1840

† On certain phenomena connected with the Spark from a secondary coil. 8vo. 2 pp. 1 plate. (*Proc. London Elec. Soc.*) *London,* 1841

On the Polarity of the Voltaic battery. (Read November 15, 1842.) 8vo. 7 pp. (*Proc. London Elec. Soc.*) *London,* 1842 ?

† A description of an extensive series of the Water battery, with an account of some experiments made in order to test the relation of the electrical and chemical actions which take place before and after completion of the Voltaic circuit. 4to. 14 pp. 1 plate. (*Phil. Trans. for* 1844, part i. p. 39.) (*Faraday's copy.*) *London,* 1846

† On the decomposition of Water under pressure by the Galvanic battery. 8vo. 2 pp. (*Report of the British Association for* 1853.) *London,* 1854

**Gassiot, J. P.**—*continued.*

† The Bakerian Lecture. On the Stratifications and dark Band in electrical discharges as observed in the Torricellian vacua. 4to. 16 pp. 1 plate. (*Phil. Trans.* 1858.) *London*, 1858

† Stratified discharges in Vacuum tubes. 8vo. 4 pp. 1 plate coloured. (*Intellectual Observer, March* 1866, p. 81.) *London*, 1866

**Gastaldi, L.** Saggio di telegrafia mobile a bandiere atta a far servizio si in terra che in mare non men di giorno che di notte. 8vo. *Torino*, 1855

† **Gastrell and Blanford.** Report of the Calcutta Cyclone of the 5th October, 1864. 8vo. 150 pp. 8 plates and charts. *Calcutta*, 1866

† **Gatteschi, G.** Saggio sul magnetismo esposto nelle sue lezioni. 8vo. 112 pp. (*Volta's copy.*) *Pisa*, 1818

**Gattoni, Giulio Cesare.** *Born . . . ; died*, 1809.

† Lettera all' editore sui Fulmini di Ritorno. (Data Como, 15 Luglio, 1808.) 4to. 14 pp. 1 plate (lith). (*Nuova Scelt. d' Opusc.* ii. 289 & 310.) *Milano*, 1807

**Gattoni, G. S.** Studies on Electricity, &c. (*From Lombardi*, vol. ii. p. 74.) 1768

**Gaubil, Ant.** Observations mathématiques, astronomiques, géographiques, chronologiques, et physiques, tirées des anciens livres, ou faites nouvellement aux Indes et à la Chine par les Pères de la Comp. de Jésus. Vol. ii. *Paris*, 1829

**Gaubius, J. D.** (*Vide* Allamand.)

† **Gaugain, J. M.** Mémoire sur une nouvelle boussole des tangentes. (Présenté à l'Académie des Sciences, 24 Janvier, 1853.) 8vo. 6 pp. (*Ann. de Chim.* 3me série, xli. 66.) *Paris*, 1854

† Traduction, Préface, et Notes. 8vo. (*Vide Ohm, Théorie des Courants.*) *Paris*, 1860

**Gauguier.** (*Vide* Gonon and Gauguier.)

**Gauss, Karl Friedrich.** *Born April* 30, 1777, *at Brunswick; died February* 23, 1855, *at Göttingen.*

† Intensitas vis magneticæ terrestris ad mensuram absolutam revocata. 4to. 44 pp. *Göttingen*, 1833

Nachrichten über d. magnet. Observatorium in Göttingen. (*Götting. gelehrt. Anzeig.* 1834.) *Göttingen*, 1834

*Note.—Gauss and Weber* (*printed* 1838), p. 15, *say:* "*Die erste öffentliche Erwähnung dieser Versuche* (*i.e. application of their single connexion, &c. to telegraphic purposes*) *findet man in den Gött. gel. Anz.* 1834. *S.* 1273, *and Vergl. Schumacher's Jahrbuch fur* 1836."

Intensitas vis magneticæ terrestris ad mensuram absolutam revocata. 4to. 44 pp. *Gottingen*, 1834

*Note.—Poggendorff*, i. 854, *says, In Comment. recent. Soc. Gott.* viii. 1832-37, (*and*) *deutsch in Poggend. Ann.* xxviii.

Erdmagnetismus und Erdmagnetometer. (*In Schumacher's Jahrbuch*, 1836.) 1836

"Manche Ergänzungungen zu dem bereits beschriebenen Systeme (Telegraphie)." (*Sitzung d. Gesellschaft d. Wissen.* 19 *September* 1837.) *Göttingen*, 1837

*Vide* also Gauss and Weber, Resultate for 1837, p. 15, &c. for an "Aufsatz" containing the principal contents of the "öffentlicher Vorlesungen" in the Sitzung, September 19, 1837.

† Misura assoluta dell' intensità della forza magnetica terrestre, Memoria tradotta e commentata da Paolo Frisiani. 4to. 197 pp. 1 plate. (*Forms the Primo Supplemento alle Effemeridi astronomiche di Milano.*) *Milano*, 1838

Ein neues Hülfsmittel für die magnetischen Beobachtungen. 4to. *Göttingen*, 1838

**Gauss, Karl Friedrich.**—*continued.*

Theorie d. Erdmagnetismus verglichen mit A. Erman's Beobachtungen. (*Astr. Nachr.* xix. 1842.) 1842

† Zum Gedächtniss. Von W. S. v. Waltershausen. 4to. 108 pp. *Leipzig*, 1856

Seine sämmtl. Werke, her ausgegeben von d. Königl. Gesellsch. d. Wiss. in Göttingen werden. 7 Bde. 4to. umfassen Erschienen. Bd. v. Mathemat. Physik. . . . 4to. 1863

(*Vide* also Fusinieri.)

† **Gauss und Weber.** Resultate aus den Beobachtungen des Magnetischen Vereins im Jahre, 1836. Idem im Jahre, 1837. Idem im Jahre, 1838. *Leipzig*, 1837-8-9

† Resultate aus den Beobachtungen des magnetischen Vereins in den Jahren, 1836-7-8-9-40-41 Jährlich. 6 vols. 8vo. and 3 vols. Atls. in 4to. *Leipzig*, 1837-43

† "Nach den Elementen der Theorie entworfen. Supplement zu den Resultaten aus den Beobachtungen des magnetischen Vereins unter Mitwerkung von C. W. B. Goldschmidt. 36 pp. 18 maps and 4 tables. *Leipzig*, 1840

(*Vide* also Abria.)

**Gauteron.** On Tourbillon. 4to. (*Montpellier Acad.*) *Montpellier*, 1778

**Gautherot, N.** Recherches sur le Galvanisme. (*Mém. des Soc. Savantes et Littér.* i. p. 471.) 1802 (?)

"Rapport fait à l'Institut, le 21 fructidor d. 1802 par Fourcroy et Vanquelin." (*On 5 Mem. of Gautherot.*) *Pau*, 1802

Mémoire sur le fluide galvanique. (*Mém. des Soc. Savantes et Littér.* i. pp. 164 and 168.)

† Adhesion of the ends of two wires in contact with the upper and lower ends of the Pile in 1801. Notice translated from the Ann. de Chim. xxxix. 209. 8vo. 1 p. (*Phil. Mag. or Annals*, iv. 458.) *London*, 1828

† **Gautherot and Nauche.** Two Experiments in Galvanism (by Gautherot). Facts in regard to the application of Galvanism in cases of Hemiplegia (by Nauche). 8vo. 3 pp. (*Phil. Mag.* xv. 368.) *London*, 1803

**Gauthier** (or **Gautier**), J. L. Dissertatio inauguralis de irritabilitatis notione, naturâ, et morbis. 8vo. 190 pp. *Hales*, 1793

**Gautier,** J. Mémoire sur l'aimant. 8vo. (*Poggend.* i. 958, *says in Mém. Soc. Nancy*, ii.) *Nancy.*

**Gavard,** Capt. Notice sur le Diagraphe. 8vo. 4 folding plates. *Paris*, 1839

† **Gavarret,** T. Lois générales de l'électricité dynamique. 4to. 151 pp. *Paris*, 1843

† Traité de l'électricité. Tom. i. 12mo. 595 pp. *Paris*, 1857

† Traité de l'électricité. Tom. ii. 12mo. 604 pp. *Paris*, 1858

† Lehrbuch der Elektricität. Deutsch bearbeitet von Dr. R. Arendt, Erster Th. 8vo. 463 pp. *Leipzig*, 1859

† Lehrbuch der Elektricität. Deutsch bearbeitet von Dr. R. Arendt. Zweiter Th. 8vo. 524 pp. *Leipzig*, 1860

† Télégraphie électrique. 12mo. 428 pp. *Paris*, 1861

† Telegrafia elettrica di J. Gavarret con aggiunte tratte da E. E. Blavier, traduzione Italiana sull' originale Francese del 1861 con preliminari e note di Ales. Magrini. 8vo. 395 pp. *Milano*, 1862

(*Vide* also Abria.)

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† **Gay-Lussac** et **Pouillet.** Instruction sur la Paratonnerres adoptée par l'Acad. des Sciences. 12mo. 130 pp. Cuts. *Paris*, 1855

† **Gay-Lussac** et **Thenard.** Decomposition of the Alkalies. Repetition of Davy's experiments, &c. 8vo. 2 pp. (*Phil. Mag.* xxxii. 88.) *London*, 1809

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**Gazette Salutaire.** Contains many writings on Medical Electricity, from 1776 to 1782, and perhaps more.

† **Gazzaniga**, C. L. Di un miglioramento da farsi alle macchine elettriche. . . . Lettera al Direttore. (*Con Nota del Fusinieri.*) 4to. 4 pp. (*Ann. del. Reg. Lomb.-Veneto*, ii. 359.) *Padova*, 1832

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† Sunto di sperienze . . . elettriche magnetiche. 8vo. 5 pp. (*Bibl. Ital.* lxxvi. 159. *This forms part of an article at p.* 156, *headed* "*Fata-morgana . . . Sunto di sperienze ottiche, elettriche magnetiche.*") *Milan*, 1834

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**Gehlen.** A. F. Neues allgem. Journ. d. Chemie. 8vo. 9 vols. (*Journ. für Chemie Physik u. Mineralogie.*) *Berlin*, 1803-6

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**Gehler,** Johann Samuel Traugott. *Born Nov.* 1, 1751, *at Gorlitz; died Oct.* 16, 1795, *at Leipzig.*

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| Vol. i. | 1825 | From Heinsius, vii. 267. |
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**Geiger,** Philipp Lorenz. *Born Aug.* 30, 1785, *at Freinsheim; died Jan.* 19, 1836, *at Heidelberg.*

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**Gemignani,** L. Della vitale elettromozione. 8vo. *Lucca*

† **Gemminger,** M. Electrisches Organ von Mormyrus und Schwanzskelet. von Eryx. (*Dissertatio Inauguralis.*) 1 plate, 15 pp. 8vo. *Munchen*, 1847

**Geneva Archives des Sciences physiques et naturelles.** Nouvelle Période. 9 vols. 8vo. *Geneva*, 1858-60

† Archives de l'Electricité. Supplément à la Bibliothèque Universelle de Genève. 5 vols. 8vo. *Geneve*, 1841-45

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† **Genevois,** J. P. Théorie de la Grêle et moyens de la prévenir. 4to. 1 plate. 92 pp. et Table. *Turin*, 1838

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Experiments, &c. in Vienna in 1853 on Contrary Currents in the same wire, exhibited to the Vienna Academy. Application to the line from Vienna to Linz whilst the question was under discussion in Paris in 1853-4, at French Institute. He was Director of the Austrian Telegraphs. (*From Magrini's Notizie Istoriche, &c.*)

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† **Georg,** F. Den Elektromagnetiske Telegraph Popular fremstilling med. særligt Hensyn til Damer. 24 pp. 8vo. *Kjöbenhavn*, 1857

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Quelques expériences galvaniques. (*Mém. des Soc. Savantes et Littér.* ii. 199.) *Paris*

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Observations sur la physique. (*From Van Troostwyk and Krayenhoff.*) 1779

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† **Gerling**, Becker, und **Andera** (?) Graphische Darstellung der magnetischen Declination zu Marburg auf u. Jahre 1843. Fol. 7 plates. *Marburg*

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† **Gerspach**, E. Histoire administrative de la Télégraphie aérienne en France. 8vo. 116 pp. (*Extrait des Anns. Télégraphiques.*") *Paris*, 1861

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† **Gete**, C. J. Anmerkungen von einem seltsamen Verhalten des Seecompasses an einer Stelle in den nylandischen scheeren. 8vo. 5 pp. 1 map. (*K. Schwed. Akad.* Abh. xii. 298.) *Hamb. u. Leipzig*, 1751

† **Geutebruck**, J. G. Erörterungen und Wünche in Hinsicht auf Blitzableiter. Zwei Vorlesungen in der Naturforschenden Gesellschaft der Osterlands. 8vo. 48 pp. 1 plate. *Leipzig*, 1828

**Gherardi**, G. Ragionamento accademico sopra varie questioni fisico-elettriche. 4to. 24 pp. *Montalboddo*, 1810

† **Gherardi**, S. Tradne. di Demonferand, Manuel, con note ed *aggiunte* del traduttore. 8vo. (*Much additional matter.*) *Bologna*, 1824

Alcune esperienze sopra le nuove correnti e le scintille magneto-elettriche. Lettera al Nobili. 8vo. 17 pp. *Firenze*, 1832

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(*In a foot-note at* p. 1 *is said* "*Priorem hanc Dissertationis partem Academiæ legi jam inde ab ejus conventu diei 5 Aprilis* 1832.)

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† Nuove teorie sulla formazione della Grandine, sull' origine dell' elettricità nella pila, esposte in due lezioni. 8vo. 31 pp. 1 plate. *Lodi*, 1869

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† **Gilbert,** Davies. On the luminous Belt of September the 29th. 8vo. 2 pp. (*Phil. Mag. or Annals*, iv. 453.) *London*, 1828

† **Gilberti,** Guil. De magnete magnetisque corporibus, et de magno magnete tellure; Physiologia nova, plurimis et argumentis et experimentis demonstrata. Ed. prima. Folio (sm.) 254 pp. *Londini*, 1600

(*Kuhn*, p. 7, *refers to an edition printed at Amsterdam*, fol. 1600.)

† Tractatus; sive Physiologia nova de Magnete. . . Omnia nunc . . recognita . . opera et studio Wolfgangi Lochmans. 2nd edition. 4to. 232 pp. 12 plates. *Sedini*, 1628

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† **Gillet-de-Laument.** Account of an Aerolite which fell in Moravia, and a mass of Native Iron which fell in Siberia. 8vo. 2 pp. (*Phil. Mag.* xlvii. 174.) *London*, 1816

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Kurze Anleit. &c. (Blitzableiter) 8vo. 3 plates. *Berlin*, 1802

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† **Giobert**, G. A. Articolo di lettera al Brugnatelli sopra diversi argomenti Fisico-Chimici. 8vo. 4 pp. (*Gior. Fis. Med.* i. 188.) *Pavia*, 1792

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† Recherches sur l'action que le fluide galvanique exerce sur différents fluides aériformes. (Lues le 6 prairial, an. 11.) 4to. 13 pp. (*Mémoires de Turin, Anns.* 12 *et* 13.) *Turin*, 1805

(*Vide* also Julio and others.)

**Gioberti.** (*Vide* Michelotti and Gioberti.)

**Gioja**, Flavio. Pilot of Amalfi; falsely called Inventor of the Compass in 1302 or 1303. (*Vide Klaproth. Letter to Humboldt, Paris*, 1834.)

**Giordano,** G. Batoreomotro. 4to. *Napoli*, 1863

**Giorgi,** Eus. Über Blizableiter. (*Vide Majocchi Annali*, viii. 178.)

**Giorgini,** G. Elettro doratura Italiana. (*Indicatore economico* 17 *Maggio.*) *Modena*, 1844

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† **Giovene,** G. M. Osservazioni elettrico-atmosferiche e barometriche, insieme paragonate Presentata. . . (17 Pratile, Ann. vii.) 5 Guigno, 1798. 4to. 34 pp. (*Mem. Soc. Ital.* viii. part i. 85 pp.) *Modena*, 1799

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† **Giquel,** E. Traité de déviation des Compas à bord des navires, renfermant de grandes quantités de fer. 8vo. 140 pp. 5 plates. *Paris*, 1868

**Girarbon.** Machine Electrophorique. (*From Du Moncel, who gives no title, date, &c.*)

† **Girardi,** M. Saggio di osservazioni anatomiche intorno agli organi elettrici della Torpedine. Al Gio. Gott. Walter, Berlino. 4to. 18 pp. 2 plates. (*Mem. Soc. Ital.* iii. 553.) *Verona*, 1786

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† **Gisborne,** Fr. Telegraphic communication with India. 8vo. 16 pp. *London*, 1868 ?

† **Gisler,** Nils. Beschreibung eines Glanzes in der Luft mit Donner, der in Westnorrlande den 13 Jan. 1763, wahrgenommen worden. 8vo. 3 pp. (*K. Schved. Akad. Abh.* xxv. 65.) *Hamb. and Leipzig*, 1763

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Nuovo metodo per scuoprire il ferro nelle acque minerali, anche in quantità minima. 8vo. (*Ital. Soc. Mem.* xxiii. (11). *Inserita nel* tom. vi. *dei Nuovi Annali delle Scienze naturali Bologna.*) *Bologna*, 1842

† **Giuli,** G., e **Santi-Linari.** Lettera del Giuli al Fusinieri e Lettere del Santi-Linari al Giuli. 4to. 2 pp. (*Ann. del Reg. Lomb.-Veneto*, ix. 200.) *Venezia*, 1839

(*This last letter concerns many of his experiments in electro-magnetism, &c.*)

† **Giulio.** Sur les effets du fluide galvanique appliqué à différentes plantes. . . Extrait d'un mémoire lu à la classe des sciences exactes de l'Acad. le 29 Pluviose, an. xi. 8vo. (*Biliot. Ital.* (*and Julio, &c.*), i. 28.) *Turin*, 1803

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† Rapport lu à l'Acad. de Turin, sur la puissance stimulante de l'électricité ordinaire et du galvanisme. 8vo. 6 pp. (*Bibliot. Ital.* iv. 25.) *Turin*, 1804

† **Giulio** e **Rossi.** Estratto di alcune esperienze fatte dai Sig. Giulio e Rossi. Movimento del Cuore di animali. (Per mezzi galvanici.) 8vo. 6 pp. (*Gior. Fis. Med. di Brugnatelli*, tom. i. dell an. 1793, p. 82.) *Pavia*, 1793

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(*Vide* also Julio, &c. and Vassalli-Eandi.) *Turin*, 1800

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*Note.—This work contains a very evident derivation from Faminius Strada's mere poetical fantasy, relative to communication between two friends, at a distance from each other, by means of magnetic needles, &c.*, having no conducting connexion.

**Gloesener.** Mémoire sur une Horloge magnéto-électrique, sur les Télégraphes électriques, et sur un appareil magnéto-électriques. 4to. (*Comptes Rendus*, xxvi. 336, and xxvii. 23.) *Paris*, 1848

Elektro-magnetischer Chronograph. 1849

† Recherches sur la Télégraphie électrique. 4to. 124 pp. 12 plates. *Liége*, 1853

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† Traité général des applications de l'Electricité. Tom. i. 8vo. 18 plates. *Paris et Liége*, 1861

Traité général des applications de l'Electricité. 2 vols. 8vo. Plates. *Paris*, 1863

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† Electrical Shocks from a Cat. 8vo. 2 pp. (*Phil. Mag.* lx. 467.) *London*, 1822

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† Prælectio de columnæ metallicæ a Volta inventæ effectibus chimicis. Habita, 13 Nov. 1803. 4to. 55 pp. (*Commentat. Soc. Göttingensis,* xv. *Phys.* p. 38.) *Göttingen,* 1800-3

† **Gmellin,** Ferd. Gottlob. Diss. sistens observat. physicas chimicas de Elect. et Galv. 8vo. 62 pp. *Tübingen,* 1802

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† **Göbel,** Severin. De Succino. Libri duo. (*Each alternate page only is numbered.*) 12mo. 60 pp. *Turin,* 1558

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† **Goebel,** A. Untersuchung eines am 29 April, 11 Mai, 1855, auf Oesel niedergefallenen Meteorsteines. 4to. (*Archiv. f. d. Naturk. Liv.-Esth. u. Curlands.* Bd. i. Dorp. 1854.) *Dorpat,* 1855

† Über Aerolithenfälle in Russland aus früheren Jahrhunderten. Lu le 20 Décembre, 1866. 4to. 16 pp. (*Bulletin de l'Acad. Imp. de St. Pétersb.* xi. 527, 1867.) *Pétersbourg,* 1867

† **Goldschmidt,** B. Results of the daily observations of Magnetic Declination during six years at Göttingen. 8vo. 12 pp. 1839

† Üb. d. magnet. Declination in Göttingen. 8vo. 31 pp. *Göttingen,* 1845

† **Golubew,** A. Über die Erscheinungen, welche elektrische Schläge an den sogenannten farblosen Formbestandtheilen des Blutes hervorbringen. (Vorgelegt in der Sitzung am 16 April, 1863.) 8vo. 18 pp. 1 plate. (*Sitzb. d. k. Akad. d. Wissensch. April-Heft Jahrg.* 1868, lvii.) *Wien*, 1868

† **Gonella,** G. B. Osservazioni sugli apparati elettro-telegrafici. 8vo. 24 pp. *Torino*, 1850

† **Gonon,** E. Mémoire sur le système télégraphique nouveau . . . Lu à l'Acad. 12 Fev. 1844. 4to. 102 pp. 1 plate. *Paris*, 1844

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† **Gonon et Gauguier.** Lettres sur l'importante question de la Télégraphie. 4to. 40 pp. *Paris*, 1850 ?

† **Goransson,** B. Observationer öfver Magnetiska Inclinationen i Lund. 8vo. 30 pp. *Lund*, 1865

**Gordon,** Andreas. *Born July* 12, 1712, *at Gofforach, co. Angus, Scotland; died August* 22, 1751, *at Erfurt.*

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† **Gore,** G. Theory and practice of Electro-deposition. . . . 8vo. 104 pp. (*Orr's Circle of the Sciences*, p. 891.) *London*, 1856 ?

† On the electrical relations of Metals, &c. in fused substances. 8vo. 6 pp. (*Phil. Mag. for June*, 1864.) *London*, 1864

† On the properties of electro-deposited Antimony. 8vo. 10 pp. (*Journal of the Chemical Society.*) *London*, 1843

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**Gorno,** P. (Notice of) Memoria sui Temporali. 8vo. (*Comment. Ateneo Brescia, vol. pr. in* 1824, p. 34.) *Brescia*, 1824

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† Nuove informazioni sull' origine del freddo dei Temporali. Memoria. 8vo. 4 pp. (*Bibliot. Ital.* xcix. 84, *and in Comment. dell' Ateneo di Brescia, vol. for* 1832, *printed in* 1833, p. 41.) *Brescia*, 1833

† **Gostling,** W. Letter to P. Collison concerning the Fire Ball seen by Lord Beauchamp in Kent. *Dated Dec.* 13, 1741, *Canterbury.* 4to. 2 pp. (*Phil. Trans.* xli. 872.) *London*, 1739-40-41

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**Goth.** G. Ub. d. Hagelstürme in Steiermark im Juli 1846. Nebst Haidingers Nachtrag zu dieser Abhandlung.

**Gottingen, Societas Scient.** Commentarii Soc. Reg. Scient. Götteng. 4to. 28 vols. *Göttingen*, 1752-1808

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† **Gottschalk.** Tarif für telegraphische Depeschen von Bremen nach allen Stationen d. deutsches terreischen Telegraphen Vereins und nach den ubrigen europaeischen und aussereuropaeischen Staaten. 16mo. 50 pp. *Bremen*, 1868

† **Gouge,** A. Beiträge zur Lehre vom Magnetismus Bericht einer aus Mitgliedern der K.K. Gesellschaft der Ärzte zu Wien bestehenden Commission erstattet. 8vo. 198 pp. *Wien*, 1846

† **Gough,** J. Remarks on Hygrometry, and the Hygrometer of J. Berzelius. 8vo. 6 pp. 1 plate. (*Phil. Mag.* xxxiii. 177.) *London*, 1809

**Gould,** Benjamin Apthorp. *Born September* 27, 1824, *at Boston, U.S.*

† On the velocity of the Galvanic Current in telegraphic wires. In a Report to Bache. 8vo. 28 pp. 1 plate. (*American Journal of Science*, 2nd series, xi. Jan. 1851.) *New Haven, U.S.* 1851

**Goulier,** C. M. Etudes géometriques sur les étoiles filantes. 8vo. 154 pp. 2 plates. *Metz*, 1868

† **Gounelle,** E. Observations sur les Expériences de M. Guillemin. 8vo. 28 pp. 1 plate. *Paris*, 1863

(*Vide* also Fizeau and Gounelle.)

† **Gourdon.** Notice sur l'Elect. employée comme moyen thérapeutique. 8vo. 12 pp. *Paris*, 1838

† **Govi,** Gilb. Romagnosi e l'Elettro-magnetismo. Ricerche storiche. 8vo. 16 pp. (*Estratto dagli Atti della Reale Accad. delle Scienze di Torino*, vol. iv. 7 *April*, 1869.) *Torino*, 1869

(*Note.—Govi shows clearly at page* 8, *&c. that Romagnosi's experiment had no connection with Oersted's, and was not magnetical. The needle was repelled by mere electric action (of a pile). It was in fact a modification or repetition of Milner's experiment in* 1783, *or of Peltier's, which was a repetition of Milner's.—F. R.*)

† L'Aurora boreale. 8vo. 4 pp. (*Estratto dalla Gazzetta Ufficiale del* 28 *Ottobre*, 1870.) *Firenze*, 1870

**Gradis,** B. Dorure et Argenture électro-chimiques. 8vo. 24 pp. *Paris*, 1851

† **Graham,** D. (Major). Observations of the Magnetic Dip made at several positions, chiefly on the South-western and North-eastern frontiers of the United States; and the Declination at two positions on the River Sabine, in 1840. Read August 16, 1844. 4to. 52 pp. (*Trans. Amn. Society*, New Series, vol. ix.) *Philadelphia*, 1846

An account of observations made of the variation of the Horizontal Needle at London, in the latter part of the year 1722 and the beginning of the year 1723. 4to. (*Phil. Trans.* 1724, p. 96.) *London*, 1724

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† Some observations, made during the last three years, of the quantity of the variation of the Magnetic Horizontal Needle to the Westward. Read April 21, 1748. 4to. 2 pp. (*Phil. Trans.* xlv. 279.) *London*, 1748

† **Graham,** T. On the finite extent of the Atmosphere. 8vo. 3 pp. (*Phil. Mag. or Annals*, i. 107.) *London*, 1827

**Elements of Chemistry,** by Watts. 2 vols. 8vo. *London*, 1850-59

† **Grailich**, Jos., and **Lang**, V. Untersuchungen über die physicalischen Verhaltnisse Krystallisirter Körper. 1. Orientirung der optis. Elasticitätsaxen in den Krystallen des rhombischen Systems. Vorgel. in d. Sitz. vom 12 Juni, 1857. 8vo. 75 pp. 7 plates. (*Sitzb. Wien Acad.* vol. xxvii. 1 Heft.) *Wien*, 1857

† Untersuchugen üb. d. Physicalischen Verhaltnisse Krystallisirter Korper. 2. Orientirung der magnetischen. Verhaltnisse in Krystallen des rhombischen Systems Vorgetragen in d. Sitzung vom 8 July 1858. 8vo. 25 pp. (*Sitzungsb. Wien Acad.* vol. xxxii. No. 21.) *Wien*, 1858 ?

† Untersuchungen üb. d. physikalischen Verhältnisse Krystallizirter Körper. 4. Über die Beziehung zwischen Krystallform, Substanz und physakilischen Verhalten. 8vo. 82 pp. Vorgetragen in der Sitzung am 7 Oct. 1858. (*Sitzungsb. d. Wien Acad.* xxiii. No. 27.) *Wien*, 1858 ?

**Gralath**, Daniel. *Born June* 8, 1739, *at Danzig; died August* 10, 1809, *at Danzig*.

† Geschichte der Elektricität. 1. Abschnitt. 4to. 130 pp. 1 plate. (*Versuche u. Abhandl. der Naturforsch. Gesellschaft in Danzig*, Th. i. S. 175.) *Danzig*, 1747

† Nachricht von einigen elektrischen Versuchen. (Balance or scales used in 1746.) 4to. 29 pp. 1 plate. (*Versuche u. Abhandl. der naturforschenden Gesellschaft in Danzig*, Th. i. No. xiii. p. 506.) *Danzig*, 1747

Geschichte der Elektricität ii. Abscnitt. 4to. 106 pp. 1 plate. (*Versuche u Abhandl. der Naturforsch. Gesellschaft in Danzig*, Th. ii. S. 355.) *Danzig*, 1754

† On Leyden Phial. (*Danzig Mem.* ii. 433.)

† Gralath's account of Experiments merely from Priestley. (*Danzig Memoirs*, vol. ii. p. 438.)

† Electrische Biliothek. St. i. 4to. 28 pp. (*Versuche u. Abhandl. Naturforsch. Gesellsch. in Danzig*, Th. ii. S. 525.) *Danzig*, 1754

† Electrische Bibliothek. St. ii. 4to. 64 pp. (*Versuche u. Abhandl. der Naturforsch. Gesellsch. in Danzig*, Th. iii. S. 265.) *Danzig*, 1756

† Geschichte der Electricität. iii. Abschnitt. 4to. 69 pp. (*Versuche u. Abhandl. Naturforsch. Gesellschaft in Danzig*, Th. iii. S. 492.) *Danzig*, 1756

**Grandami (Grandamicus)**, Jacques. *Born* 1588, *at Nantes; died February* 12. 1672, *at Paris*.

† Nova demonstratio immobilitatis terræ patita, ex virtute magnetica. 4to 170 pp. Plates. *Flexiæ*, 1645

**Grantham.** (*Vide* Liverpool Compass Committee.)

**Grapengieser**, C. J. C. Versuche den Galvanismus, zur Heilung einiger Krankheiten anzuwenden angestellt und beschrieben von G. 1st ed. 8vo. Plates. *Berlin*, 1801

† Versuche den Galvanismus zur heilung einiger Krankheiten anzuwenden. 2 Auflage. 8vo. 230 pp. 2 Plates. *Berlin*, 1802

**Graperon.** Sur un nouveau galvanomètre, avec une notice sur quelques faits galvaniques. 8vo. (*Journ. du Galv.*) 1803

Réflexions sur une expérience galvanique. 8vo. (*Journ. du Galv.* No. iii. p. 101.) *Paris*

**S'Gravesande**, Wilhelm Jacob. *Born September* 27, 1688, *at Herzogenbusch; died February* 28, 1742, *at Leyden*.

† Œuvres philosophiques et mathématiques. Publiées par S. Allamand. 2 vols. 4to. *Amsterdam*, 1774

† Eléments de Physique, par Joncourt. 2 vols. 4to. plates. *Leide*, 1846

**Gravier.** (*Vide* Coulvier-Gravier.

**Gray,** Stephen. *Born end of seventeenth century, in England; died February* 15, 1736, *at London.*

New Electrical experiments. 4to. (*Phil. Trans. Abd.* vi. part ii. p. 7.) 1720

† An account of some new Electrical experiments. 4to. 4 pp. (*Phil. Trans.* xxxi. *for* 1720-21.) *London*, 1723

Farther experiments concerning Electricity. (*Phil. Trans. Abd.* vi. part iv. p. 96 *in the vol. marked* vii.) *London*, 1731

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† A letter to Mortimer, containing several experiments concerning Electricity, by Gray, S., dated Charter House, February 8, 1730-31. 4to. 27 pp. (*Phil. Trans.* xxxvii. 18.) *London*, 1731

† A letter concerning the Electricity of Water, from Gray to Mortimer, C., dated Charter House, January 20, 1731-32. 4to. 4 pp. (*Phil. Trans.* xxxvii. 227.) *London*, 1731-32

† A letter from Gray to Mortimer containing a farther account of his experiments concerning Electricity. Dated Charter House, June 7, 1732. 4to. 7 pp. (*Phil. Trans.* xxxvii. 285.) *London*, 1731-32

† Two letters from Gray to Mortimer, containing farther accounts of his Experiments concerning Electricity. First letter dated Charter House, October 15, 1732. 4to. 11 pp. (*Phil. Trans.* xxxvii. 397.) *London*, 1731-32

Experiments and Observations upon the Light, &c. (*Phil. Trans. Abd.* viii. 395.) 1734-35

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**Hankel**, Wilhelm Gottlieb. *Born May* 17, 1814, *at Ermsleben Reg. Bez. Merseburg.*

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† Elektrische Untersuchungen. Erste Abhandlung über die Messung der atmosphärischen Elektricität, nach absoluten Maassen. 4to. 219 pp. 2 plates. (*König. Sächsische Gesellschaft der Wissensch.* vol. v.) *Leipzig*, 1856

† Elektrische Untersuchungen Zweite Abhand. Über die thermoelektrischen Eigenschaften des Boracites. 4to. 101 pp. (*König. Sächische Gesells. der Wissensch.* vol. vi.) *Leipzig*, 1857

† Elektrische Untersuchungen Dritte Abhandl. Über Electricitäts erregung zwichen Metallen und erhitzten Salzen. 4to. (*König. Sächische Gesells. der Wissen.* vol. vi.) *Leipzig*, 1858

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Neue Theorie der elektr. Erscheinungen (2 Abhandl.) 8vo.

† Elektrische Untersuchungen, Abhandl. vii. Über die thermoelektrischen E schaften des Bergkrystalles. 4to. 70 pp. 2 plates. (*Abhandl. d. K. S. G d. Wissen.* xiii. *Leipzig.*) *Leipzig,*

† Elektrische Untersuchungen, Abhandlung viii. Uber die thermoelektri Eigenschaften des Topases. 4to. 96 pp. 4 plates (coloured). (*Abha mathem. phys. Classe d. K. Sächsische Gesells. d. Wissen.* ix. *Bandes.* (N *Leipzig,*

† Elektrische Untersuchungen Neunte Abhandlung. Über die thermoelektri Eigenschaften des Schwerspathes. 69 pp. 8vo. (*Abhandl. d. Mathem. Classe d. K. Sächsischen Gesells. d. Wissenschaft*, vol. x. No. iv.) *Leipzig,* (*Note.—There are two title-pages; one of them without the designation Royal Saxon Society, by which it was printed.*)

† Elektrische Untersuchungen Zehnte Abhandlung. Über die Thermoelektr Eigenschaften des Aragonites. 70 pp. 3 plates. (*Abhandlung. d. K. S ischen Gesells. d. Wissenschaft*, No. 5, vol. x.) *Leipzig,*

† **Hänle**, C. F. Die Ursache der innern Erdwärme der Entstehung des Erdpla der Feuerkugeln, Sternschnupfen und Meteorsteine. 8vo. 78 pp. *Lahr,*

† Galvano-Epikalymmatik oder hydroelektrische Metallüberziehung Vergo Versilberung, &c. auf galvanischem Wege. Nebt dem Neuesten . . Galvanoplastik, &c. . . 2te sehr vermehrte Auflage. *Lahr,*

**Hannemann**, J. L. De fulminis effectu miro. (*Miscell. Acad. Nat. Cur.*)

De pisce torpedine ejusque proprietatibus admirandis. (*From Pogg.* i. 1(

**Hanover.** Hannoversche gelehrte Anzeigen-nützliche Sammlungen, Beiträ Hannoversches Magazin seit 1750 nach einander in 4to. herausgegeben. *Reimarus Vom Blitz*, 1778, p. xliii.)

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† **Hanow**, M. C. Verschiedene neue Versuche mit den gläsernen Spring-Kö 4to. 10 pp. 1 plate. (*Versuche d. Naturf. Gesellsch. in Danzig*, i. 534.) *Danzig,*

† Erläuterte Ursachen der Versuche mit den Spring-Kölbchen. 4to. (*Versuche d. Naturf. Gesellsch. in Danzig*, iii. 328.) *Danzig*

**Hansteen**, Christopher. *Born Sept.* 26, 1784, *at Christiania.*

† Untersuchungen über den Magnetismus der Erde, übersetzt von P. F. H Erster Theil. Die mechanischen Erscheinungen des Magneten m hang enthalt. Beobachtungen der Abweichung und Neigung der M nadel. 4to. 502 and 148 pp. 5 plates, atlas 7 plates. *Christiania*

† Ueber die tägliche Veränderung der Intensität des Erd-Magnetismus, u Magnetismus vertikalstehender Körper. Vorgel. im März, 1821. *Christiania,*

† Observations on Magnetism. 8vo. 4 pp. (*Phil. Mag.* lix. 248.) *London,*

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† Periodisk forandring i Jordens magnetiske Intensitet, som er afhæn Maanebanens Beliggenhed. 8vo. 34 pp. (*Nyt Magasin for Naturvi berne*, ii.) *Christiania*

**Hansteen**, Christopher—*continued.*

† Magnetiske Jagttageleser, anstillende paar et Togt i Middelhavet med den Norske Corvet Ornen i Sommeren 1840, af Capne. Konow og Valeur; middeelte af Chr. Hansteen. 8vo. 26 pp. (*Nyt Mag. for Naturvidenskaberne*, vol. iii.) *Christiania*, 1841

† Magnetiske Jagttagelesér paar en Reise igjennem Danmark og en Deel af det nordlige Tydskland i Sommeren 1839. 8vo. 43 pp. 1 plate (curves). (*Nyt Mag. for Naturvidenskabene*, vol. iii. p. 227.) *Christiania*, 1842

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† Magnetiska Terminsiagttageleser i Christianias magnetiska Observatorium, middeelte af C. H. 8vo. 11 pp. (*Nyt Mag. for Naturvidenskabene.*) *Christiania*, 1842

† Magnetiska Jagttageleser anstiblede paa et Ovelsestogt med den Norske Corvet Ornen til Lissabon og de Azoreske oer i Sommeren 1841, af Expeditionens Officierer, middeelte af C. H. 8vo. 5 pp. (*Nyt Mag. for Naturvidenskabene*, vol. iii.) *Christiania*, 1842

† Minimum af Magnetnaalens Inclination i Christiania. (*Tillæg til Undersogelsen* S. 273-282.) 8vo. 3 pp. (*Nyt Mag. for Naturvidenskabene*, vol. iii.) 8vo. 3 pp. *Christiania*, 1842

Interpolations formula for Magnetnaalens Misvisw. og Helding, &c. 4to. *Christiania*, 1844 ?

† Magnetiske Jagttageleser anstillede paa forskjellige Söereiser i Atlanterhavet og Middelhavet af den Norske Marines Officener, samt paa en Reise til Stockholm; meddelta af C. H. 8vo. 15 pp. (*Nyt Mag. Naturvidenskabene*, vol. iv.) *Christiania*, 1845

† Meteorologiske Constanter for Christiania. 4to. 51 pp. and 5 pp. (*Nyt Mag. fur Naturvid.* v. 374 and vi. 51 pp.) *Christiania*, 1845-51

† Sur la diminution de l'inclinaison magnétique en Europe. (Lettre adressée le 22 Septembre, 1853, à M. Quételet par M. Hansteen.) 8vo. 18 pp. (*Acad. Rle. de Belgique: Ext. du* v. xx. No. 10, *des Bulletins.*) *Bruxelles*, 1853

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† Das magnetische System der Erde. 8vo. 4 plates. 36 pp. (*Zeitschr. f. pop. Mitth.* i. 33.) *Altona*, 1859 ?

† Sur les Aurores Boréales et sur l'inclinaison Magnétique à Bruxelles; Lettres de M. Hansteen communiquées par M. A. Quetelet. 8vo. 24 pp. (*Acad. Royale de Belgique. Extr. du* tom. xxi. No. 5 *des Bulletins.*) *Bruxelles*

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† **Harding.** Observations on the Variations of the Needle. 4to. 11 pp. (*Dublin Acad.* (?) vol. iv.) *Dublin*, 1791

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**Hare,** Robert. *Born January* 17, 1781, *at Philadelphia; died May* 15, 1858, *at Philadelphia.*

A new Theory of Galvanism . . Calorimotor, &c. 8vo. 17 pp. (*From Dove*, p. 185.) *Philadelphia*, 1819

† A new Theory of Galvanism, supported by some Experiments and Observations made by means of the Calorimotor, a new galvanic instrument; also a new mode of decomposing Potash extemporaneously. 8vo. 10 pp. 1 plate. (*Phil. Mag.* liv. 206.) *London*, 1819

† A Memoir on some new modifications of Galvanic apparatus, with Observations in support of his theory of Galvanism. 8vo. 11 pp. 1 plate. (*Phil. Mag.* lvii. 284.) *London*, 1821

† Description of an electrical Plate machine; the plate mounted horizontally, and so as to show both negative and positive Electricity. 8vo. 2 pp. (*Phil. Mag.* lxii. 8.) *London*, 1823

† An Essay on the question, Whether there be two Electrical fluids, according to Du Faye, or one according to Franklin? 8vo. 5 pp. (*Phil. Mag.* lxii. 3.) *London*, 1823

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† On the construction and applications of the improved Sliding-rod Eudiometer, and of the Volumescope. 8vo. 9 pp. (*Phil. Mag. or Annals.* vi. pp. 114 and 171.) *London*, 1829

† An examination of the question . . (relative to) Mechanical Electricity and the Galvanic fluid. 8vo. 11 pp. *Philadelphia*, 1836

† Experimental observations, &c., with theoretical suggestions respecting the causes of Tornadoes, Falling Stars, and the Aurora Borealis. 4to. 60 pp. 1 plate. *Philadelphia*, 1836

Description of an Electrical machine, with a plate 4 ft. in diameter, so constructed as to be above the operator; also of a Battery discharger employed therewith, and some observations on the causes of the diversity in the length of the Sparks erroneously distinguished by the terms Positive and Negative. 4to. (*Amer. Phil. Soc. Trans.* new series, vol. v.) *Philadelphia*, 1837

Sundry improvements in apparatus or manipulation. 4to. (*Amer. Phil. Soc. Trans.* new series, vol. v.) *Philadelphia*, 1837

On the causes of the Tornado, or Water-spout. 4to. (*Amer. Phil. Soc. Trans.* new series, vol. v.) *Philadelphia*, 1837

† Engraving and description of a Rotatory-multiplier, or one in which one or more needles are made to revolve by a galvanic current. 4to. (*Trans. Amer. Phil. Soc.* new series, vol. vi. p. 343.) *Philadelphia*, 1839

† Improved process for obtaining Potassium. Read Dec. 7, 1838. 4to. 2 pp. (*Trans. Amer. Phil. Soc.* vol. vi. p. 341.) *Philadelphia*, 1839

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† Engraving and description of an apparatus for the decomposition and recomposition of Water. . . Read Dec. 7, 1838. 4to. 2 pp. (*Trans. Amer. Phil. Soc.* new series, vol. vi. p. 339.) *Philadelphia*, 1839

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Of the conclusions arrived at by the Committee of the Academy (Paris) agreeably to which Tornadoes are caused by Heat. 8vo. 89 pp. *Philadelphia*, 1852

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† A Memoir on some new modifications of Galvanic apparatus, with observations in support of his new theory of Galvanism. 8vo. 17 pp. 1 plate. (*n. d.*)

† A letter to Prof. Faraday on certain Theoretical opinions. 8vo. (*Amer. Journal of Science*, No. 1, vol. xxxviii.) *New York ?*

Description of an apparatus for deflagrating Carburets, Phosphurets, and Cyanides in vacuo, or in an atmosphere of Hydrogen; with an account of some results obtained by these and other means, especially the isolation of Calcium. 4to. (*Trans. Amer. Phil. Soc.* new series, vol. vii.) *Philadelphia*, 1841

† **Hare and Allen.** Account of a Tornado which, towards the end of August, 1838, passed over the suburbs of the City of Providence, in the State of Rhode Island, and afterwards over a part of the village of Somerset; also an extract of a letter on the same subject from Z. Allen, Esq., of the City of Providence. 4to. 5 pp. (*Trans. Amer. Phil. Soc.* new series, vol. vi. p. 297.) *Philadelphia*, 1839

**Harriot** (or **Hariot**), Thomas. *Born* 1560, *at Oxford; died July* 2, 1621, *at London.*

On Magnetic Variations. (*From Gilbert, and vide Pogg.* i. 1019.)
(*Note.—One of the "Viri docti qui in longinquis navigationibus variationis magneticæ differentias observaverunt."*)

† **Harles**, C. F. Andeutungen einer pathogisch. Elektrologie und insbesondere einiger vorzugsweise electrischen Krankheiten. 4to. 80 pp. (*Abhandl. der Physik. Medic. Soc. zu Erlangen*, B. i. s. 52.) *Frankfürt*, 1810

Der Republikanismus in der Naturwissenschaft und Medicin auf der Basis, und unter der Aegide, des Electricismus. 8vo. (*From Heinsius*, vi. 335.) *Bonn*, 1819

**Harpez de la Force.** Proposal of a Prize Essay. (*Danzig Mem.* i. 261.)

**Harrington, R.** (or Anonymous). A new system of Fire, &c., &c.; also an elucidation, &c. . . Electricity. 8vo. *London*, 1796

**Harrington.** Experiments and observations on Volta's Pile, &c. 8vo. *Carlisle*, 1801

The death-warrant of the French system of Chemistry, &c. 8vo. *London*, 1804

**Harris, John.** *Born about* 1667; *died September* 17, 1719.

Navigantium . . Bibliotheca, or a complete collection of Voyages, &c. . . Introduction . . Loadstone. 8vo. (*From Watt.*) *London*, 1702

Navigantium . . Bibliotheca, or a complete collection of Voyages, &c. . . Introduction . . Loadstone. 8vo. (*From Watt.*) *London*, 1705

† **Harris, Joseph.** An account of some Magnetical observations made in the months of May, June, and July, 1732, in the Atlantick, or Western Ocean; as also the description of a Water-spout. Communicated by Mr. George Graham, F.R.S. 4to. 5 pp. 1 plate. (*Phil. Trans.* xxxviii. for 1733-34, p. 75.) *London*, 1835

*† **Harris**, Salem. Of the influence of Solar and Lunar attraction on Clouds and Vapours. 8vo. 6 pp. (*Phil. Mag.* xxxvi. 58.) *London*, 1810

**Harris** (afterwards Sir), William Snow. Electrical Conductors for Ships. Experiment in Plymouth Harbour. 8vo. 7 pp. (*Phil. Mag.* lx. 231.) *London*, 1822

† Observations on the effects of Lightning on floating bodies, &c. with an account of a new method of applying fixed and continuous Conductors of Electricity to the Masts of Ships. Letter to Sir T. B. Martin. 4to. 89 pp. 5 plates. *London*, 1823

(*Note.—The illustration accompanies plate* i. *The lines on the paper originally consisted of gold leaf. . . A discharge has been passed over the gold leaf to show by its deflagration the course of the electric matter.*)

On the Laws of Electric accumulation. 8vo. (*Trans. of the Plymouth Instit.* Nov. 1825.) *Plymouth*, 1825

† On the relative powers of various metallic substances as Conductors of Electricity. Read Dec. 14, 1826. 4to. 7 pp. 1 plate. (*Phil. Trans.*) *London*, 1827

† Experimental inquiries on Electrical accumulation. 8vo. 53 pp. 4 plates. (*From the Trans. of the Plymouth Institution.*) *Plymouth*, 1828

Inquiries concerning the Laws of Magnetic forces, containing a description and drawing of a new Magnetical instrument for measuring these forces. 4to. (*Edinb. Phil. Trans.* April 1829.) *Edinburgh*, 1829

† On the utility of fixing Lightning Conductors on Ships. 8vo. 23 pp. (*Roget's copy.*) *Plymouth*, 1830

† On the transient Magnetic state of which various bodies are susceptible. 4to. (*Phil. Trans. for* 1831, part i.) *London*, 1831

On the influence of Screens in arresting the progress of Magnetic action, and on the power of masses of iron to control the attractive force of a Magnet. 4to. (*Phil. Trans. for* 1831.) *London*, 1831

On a new Electrometer, and on the heat excited in Metallic bodies by Voltaic Electricity. 4to. (*Edin. Phil. Trans.* Dec. 1831.) *Edinburgh*, 1831

On the transient Magnetic state of which various substances are capable. Communicated by Davies Gilbert, Esq. 4to. 24 pp. 2 plates. *London*, 1831

On the employment of vibrating Magnetic bars in experimental inquiries relative to the Earth's magnetic intensity. 8vo. (*British Association Report for* 1832, vol. ii.) *London*, 1832

On the investigation of Magnetic intensity by the oscillation of the horizontal needle. 4to. (*Edinb. Phil. Trans.* Jan. 1834.) *Edinburgh*, 1834

† On some elementary laws of Electricity (first series), containing an account of several new instruments and discoveries in Electricity. 4to. 33 pp. 3 plates. (*Phil. Trans. for* 1834.) (*Faraday's copy.*) *London*, 1834

Three short papers on Electricity. 8vo. (*British Association Reports for* 1835.) *London*, 1835

† A series of Papers on the defence of Ships and Buildings from Lightning. 8vo. 46 pp. (*Nautical Magazine*, xxv.) *London*, 1835

On the nature of Electrical repulsion. 8vo. (*British Association Reports for* 1836.) *London*, 1836

† Inquiries concerning the Elementary Laws of Electricity. Second Series. 4to. 36 pp. 2 plates. (*Phil. Trans. for* 1836, part ii.) *London*, 1836

A series of three Papers, termed Illustrations of cases of damage by Lightning in the British Navy. (*Nautical Magazine for* 1838.) *London*, 1838

† State of the question relating to the protection of the British Navy from Lightning, by the method of fixed Conductors of Electricity, as proposed by Mr. Snow Harris. With appendix. 8vo. *Plymouth*, 1838

**Harris** (afterwards Sir), William Snow—*continued.*

The Bakerian Lecture. Inquiries in Electricity (third series), containing a further investigation of the Phenomena of Electrical induction and attraction. 4to. (*Phil. Trans. for* 1839, part ii.) *London*, 1839

† On Lightning Conductors, and on certain principles in Electrical science; being an investigation of Mr. Sturgeon's experimental and theoretical researches in Electricity, published by him in the *Annals of Electricity*, &c. 8vo. 12 pp. 1 plate. (*Phil. Mag for* Dec. 1839, p. 463.) (*Faraday's copy.*) *London*, 1839

† Commission appointed to inquire into the plan of W. S. Harris. Copy of the report and evidence relating to the protection of Ships from the effects of Lightning. Ordered by the House of Commons to be printed 11th Feb. 1840. Folio. 96 pp. 12 plates. *London*, 1840

On the course of the Electrical discharge, and on the effects of Lightning on certain ships of the British Navy. 8vo. (*From his Record of Phil. Papers*, p. 4.) (*Edinb. and Lond. Phil. Mag.* Feb. and March, 1840.) *London*, 1840

† On Lightning Conductors, and the effects of Lightning on H.M.'s ship "*Rodney*" and certain other ships of the British Navy; being a further examination of Mr. Sturgeon's Memoir on Marine Lightning Conductors. 8vo. 12 pp. 1 plate. (*Annals of Electricity*, iv. 484.) *London*, 1840

† Extract of a letter from W. S. Harris to W. Sturgeon. 8vo. 13 pp. (*Anns. of Electricity*, v. 208.) (*Roget's copy.*) *London*, 1840

On the supposed Electro-magnetical effects of Marine Lightning Conductors. (*Nautical Magazine*, Enlarged Series, No. 2, vol. for 1841.) 1841

On the specific conductive capacity of various Electrical substances. 4to. (*Phil. Trans. for* 1842.) *London*, 1842

Observations on the action of Lightning Conductors. (*Proc. London Elec. Soc. for* 1842.) *London*, 1842

† On the effects of Lightning on the British ship "*Underwood.*" 8vo. 8 pp. (*Nautical Mag. for* June 1842.) (*Roget's copy.*) *London*, 1842

† On the nature of Thunderstorms, and the means of protecting Buildings and Shipping against . . Lightning. 8vo. *London*, 1843

A theoretical and practical view of Thunderstorms, and the protection of Buildings and Ships from Lightning. (*From his Record of Phil. Papers*, p. 6.) *London*, 1843

† On Damage by Lightning in the British Navy. 8vo. 66 pp. (*Extract from the Nautical Magazine*, 1843.) *London*, 1843

† Meteorology of Thunderstorms at Sea, with analytical deductions, and a history of the effects of Lightning on 210 ships of the Royal Navy. 8vo. *London*, 1844

*Note.—The first part was printed in the "Nautical Magazine" after the second part containing the history of cases had been completed. The first part has* 18 pp.; *the second part is entitled "Damage by Lightning in the British Navy," and has* 66 pp.

† Remarkable instances of the protection of certain Ships of H.M.'s Navy from the destructive effects of Lightning; collected from various authorities. 8vo. 18 pp. *Plymouth*, 1844

Remarkable instances of defence of certain Ships of the Royal Navy from the destructive agency of Lightning, with practical and theoretical deductions. (*From his Record of Phil. Papers*, p. 6.) *London*, 1846

Letter to the Secretary of the Incorporated Society for building Churches, &c. on the Preservation of Public Buildings from Lightning. 8vo. (*From his Record of Phil. Papers*, p. 6.) *Plymouth*, 1847

A Public Official Letter to the India Board, dated June 21, 1847, relative to a Board Order requiring all Transports to be fitted with his Conductors. (*From his Record of Phil. Papers*, p. 7.) 1847

Harris (afterwards Sir), William Snow—*continued.*

† Remarkable instances of the protection of certain Ships . . from the destructive effects of Lightning. . . 8vo. 61 pp. 2 plates. *London*, 1847

Instructions for the application of permanently fixed Conductors in H.M.'s ships, drawn up for the use of H.M.'s dockyards. Printed by order of the Lords Commissioners of the Admiralty. (*From his Record of Phil. Papers.*) *London*, 1848

Rudimentary Electricity. 1st edition. 12mo. 160 pp. *London*, 1848

† Letter to the Earl of Wilton on returns . . . relative to . . . fixed Metallic Conductors employed in H.M.'s Navy. 8vo. 35 pp. *Plymouth*, 1849

† Letter on the Preservation of Public Buildings from . . . Lightning (revised) addressed to the . . . Society for building Churches, &c. dated December, 1847. 8vo. 12 pp. *London*, 1850

† On the relative Cost and Efficiency of permanent and temporary forms of Lightning Conductors as applicable to the defence of the Royal Navy. 8vo. 27 pp. *Plymouth*, 1850

† Rudimentary Magnetism. . . Parts i. and ii. 12mo. 159 pp. *London*, 1850

† Remarkable instances of the Preservation of certain Ships of the Royal Navy from Lightning. Abridged from Official and other authenticated Reports. 8vo. 19 pp. *Plymouth*, 1850

Rudiments of Electricity. New edition. 12mo. *London*, 1851

† Rudimentary Magnetism. . . Part iii. 12mo. 186 pp. *London*, 1852

† Destruction of Merchant Ships. Shipwreck by Lightning. 8vo. 6 pp. (*Nautical Magazine for November*, 1852.) *London*, 1852

† Papers relating to Harris's Lightning Conductors and the destructive effects of Lightning on Ships. Fol. 11 pp. 2 plates. *London*, 1852

† A record of (his Philosophical Papers, &c. 8vo. 7 pp. *Plymouth*, 1852?
(*Note.—Latimer Clark's Catalogue says probably* 1852.)

† Papers relative to Harris's Lightning Conductors. Appendix, with Addendum of 1 sheet. Fol. 37 pp. *London*, 1852

† Review of the History and Progress of the general system of Lightning Conductors . . in the Royal Navy. 8vo. 10 pp. (*Reprinted from the Nautical Magazine for March*, 1853.) 1853

† Shipwrecks by Lightning. Copies of papers relative to Shipwrecks by Lightning as prepared by Sir Snow Harris, and presented by him to the Admiralty. Fol. 82 pp. 5 plates. *London*, 1854

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(*Note.—Socin says that Jacquet is the author of the original French work and Hildebrand the* ("A. H.") *translator as above.*)

**Hildebrandt**, Georg Friedrich. *Born June 5*, 1764, *at Hanover; died March 25*, 1816, *at Erlangen.*

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"Der Hipp'sche Schreibapparat ohne Relais." (*From Kuhn.*)

Copirtelegraphen. (*Kuhn, p.* 1007, *gives no account of the source of quotation, but an account of the thing itself.*)

Invented or described several apparatus, as alluded to by Du Moncel, Kuhn, &c. but I can find no references to their sources of information. He obtained a Medal at the Exposition of 1853.

(*Vide* also Hartmann, Description du télégraphe de M. Hipp.)

**Hire.** (*Vide* La Hire, De.)

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**Hisinger, W.** *Born Dec.* 22, 1766, *at Elfstorps, Bruk; died June* 28, 1852, *at Skinskattberg.* (*Poggendorff*, i. 1112.)

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*Poggendorff says that Hisinger published many articles in this periodical between* 1806 *to* 1818.

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† **Hittorf, W.** De joutum migrationibus electrolyticis. Pars prima. Comment. Chem. Phis. 4to. 20 pp. 1 plate (lith.) *Monasterii Guestphalorum*, 1853

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**Hjorter, Olof Peter.** *Born* 1696, *at Jämtland; died April* 25, 1750, *at Upsala.*

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† **Hoadly, Benjamin.** *Born February* 10, 1705, *at London; died August* 10, 1757, *at Chelsea.*

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**Hoffmann, Johann Christian.** *Born* 1768, *at Schlettau, near Lauchstadt.*

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**Hollmann,** Samuel Christian. *Born December* 3, 1696, *at Stettin; died September* 4, 1787, *at Göttingen.*

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**Hooke, Dr. Robert.** *Born July* 18, 1635, *at Freshwater, Isle of Wight; died March* 3, 1703, *at London.*

Variation (Magnetic). (*From Churchman.*) 1674

His Optical Telegraph. (*Vide Poggendorff*, i. 1138, *and* 420 *C. Chappe. Vide also Böckmann, J. L., Über Telegraphie, &c., Carlsruhe*, 1794. *Hooke's Telegraph was made known (by him) long before Claude Chappe's.*) 1684

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† **Hopkins, Evan.** Notice sur la dépolarisation des Navires de fer, par M. Evan Hopkins. . . Traduit de l'anglais par F. A. B. Craufurd. 8vo. 17 pp. 1 plate. *Paris*, 1867

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**Hopkinson, Thos.** *Born April*, 1709, *at London; died* 1751, *at Philadelphia.*

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† **Hoppe, Martin.** Über das Gewitter. 4to. 18 pp. (*Program des Fürstlich. Hedwigschen Gymnasium, in Neustettin . . 10 und* 11 *April* 1865). *Neustettin*, 1865

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**Horneman.** (*Vide* Œrsted and others.)

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**Horner, Johann Kaspar.** *Born March* 21, 1774, *at Zurich; died Nov.* 3, 1834, *at Zurich.*

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**Horsburgh,** James. *Born September* 23, 1762, *at Elie, Fifeshire, Scotland; died May* 14, 1836, *at Herne Hill, near London.*

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**Humboldt.** Friedrich Heinrich Alexander (Freiherr von). *Born Sept.* 14, 1769, *at Berlin.*

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(*Note.—These are all from Pogg.* i. 1261.)

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**Kirchvogel,** A. B. De natura electricitatis aereæ. 1767
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**Kirkwood,** Daniel. Meteoric Astronomy: a Treatise on Shooting-Stars, Fire-Balls, and Aerolites. *London and Philadelphia*, 1867?

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**Klaproth,** Julius. *Born October* 11, 1783, *at Berlin; died August* 27, 1835, *at Paris.*

† Lettre à Humboldt sur l'invention de la Boussole. 8vo. 138 pp. 3 plates. *Paris*, 1834

**Klaproth,** Martin Heinrich. *Born December* 1, 1743, *at Wernigerode; died January* 1, 1817, *at Berlin.*

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† Des masses pierreuses et métalliques tombées de l'atmosphère. Lu à l'Acad. 27 Janvier et 10 Mars 1803. 4to. 28 pp. (*Mém. de l'Acad. R. de Berlin, for* 1803.) *Berlin*, 1803

† Dissertation on Stones and Iron Masses falling from the heavens, &c. 8vo. 2 pp. Read 18th January, 1803, in R. Acad. of Sciences at Berlin. (*Phil. Mag.* xv. 182.) *London*, 1803

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Gaubius published an observ. of Klein (on a cure by Electricity) in the Haarlem Soc. Mem. (*Mém. de la Soc. de Haarlem*, tom. i.) *Haarlem*

**Kleist,** Ewald Georg Von. *Born . . . . ; died December* 11, 1748, *at Cöslin.*

*Invented the Leyden Phial October* 11, 1745 (*Kleist'sche oder Leyden Flasche*). (*Vide Poggendorff, Wörterb.* i. 1271, *for some names having reference thereto; and a history of the invention, &c.*)

*Krünitz, Priestley's Hist. p.* 53, *says, in reference to Kleist's invention, Priestley errs when he states that his account was communicated to an Academy at Berlin and copied from its Register by Gralath; but Kleist had on the 4th November*, 1745, *given to Dr. Lieberkuhn in Berlin an account of his new experiments, and afterwards he, under date the* 18*th of this month, received the answer from him that the experiments were perfectly new and remarkable; he then addressed it, with Dr. Lieberkuhn's remarks thereon, on the 28th November, to Paul Swietlickt, Fellow of the Danziger-Naturforschenden Gesellschaft, who communicated the same to the Society, and it was from the Register of this Society that the experiments were taken by Gralath in the order and in the words which the Prelate himself had employed.*

Account of the Leyden Phial sent to Dr. Lieberkuhn. (*In Danzig Mem.* i. 407.) 1745

**Klindworth,** J. A. Kurze Beschreibung eines der grosszten Elektrophore von Herr Hofmechanicus. 8vo. (*Lichtenberg's Mag.* i. 35—45.) *Gotha*, 1781-5

**Klingenstierna,** Samuel. *Born Aug.* 18, 1698, *at Tollefors near Linkjöping; died October* 26, 1765, *at Stockholm.*

Dissertatio de Electricitate. Part i. 4to. *Upsal*, 1740

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**Klingenstierna** et **Brande.** Dissertatio de magnetismo artificiale. *Stockholm* (*Holmiæ*), 1758

**Klingert,** K. H. Construirte . . . eine trockne Säule mit Uhrwerk. 8vo. (*Gilbert Annalen*, liii. 1816.) *Leipsig*, 1816

† **Klinkhardt,** C. H. Der Magnet. Eine Erklärung der merkwürdigsten Erscheinungen des mineralischen Magnetismus. 8vo. 66 pp. *Leipzig*, 1835

**Klinkosch,** Joseph Thaddäus. *Born October* 24, 1734, *at Prague; died April* 16, 1778, *at Prague.*

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On the Electrophorus. (*Mém. de l'Acad. de Prague*, iii. 218. *Böhm, Privat-Gesell.* Abhandl. iii. 213—226.) *Prague*

**Kloden.** (*Vide* Challis, &c.)

**Klœrich,** F. W. Versuche über d. Wirkungen d. Magnets in Vertreibung d. Zahnschmerzen. (*Götting. Anzeigen*, 1765.) *Göttingen*, 1765

Von dem medicin Gebrauch d. Magnets im funften Jahrhundert. (*Götting. Anzeigen*, 1766.) *Göttingen*, 1766

**Klugel,** Georg Simon. *Born August* 19, 1739, *at Hamburg; died August* 4, 1812, *at Halle.*

Beschreib. d. Wirkung. ein. heftig. Gewitters d. 12 Juli 1789 zu Halle, nebst Erklärung d. Entstehung d. Gewitters.

Dsalb. Angebd: 2 div. Schriften üb. Wetterleiter. *Halle*, 1789

(*Note.—These two entries are from Schmidt's Cat. No.* coxxxx. *des Antiquarischen Bücherlagers*, 1865.)

† Beschreibung der Wirkungen eines heftigen Gewitters . . . 8vo. 64 pp. *Halle*, 1789

**Knebel.** (*Vide* Gersdorf von, and Knebel.)

**Knight,** Charles. English Cyclopædia. Arts and Sciences, 8 vols.

**Knight,** Gowin. *Born . . . ; died June* 9, 1772, *at London.*

† An account of some Magnetical Experiments, shewed before the Royal Society by Knight, G. on Thursday the 15th November, 1744. Read November 15, 1744. 4to. 6 pp. (*Phil. Trans.* xliii. p. 161, *pro* 1744-5, printed 1746.) *London*, 1744-45

† A letter from Knight, G. to the President; concerning the Poles of Magnets being variously placed. Read April 4, 1745. 4to. 3 pp. (*Phil. Trans.* xliii. 361.) *London*, 1744-45

† A collection of the Magnetical Experiments communicated to the Royal Society by Knight, G. in the years 1746-47. Read Feb. 19, 1746-47, July 2, 1747, and Dec. 17, 1747. 4to. 17 pp. (*Phil. Trans.* xliv. 656.)

(*Note.—These three papers are entitled as follows :—*

*I. An account of some Magnetic Experiments exhibited before the Royal Society the 19th February*, 1746 (*and read then*). *This is a report of the President, &c., at* p. 656.

*II. An account of some new Experiments lately made with artificial Magnets, date June* 4, 1747. *Read July* 2, 1747, p. 662.

*III. Some further Experiments relating to the general phenomena of Magnetism. Read December* 17, 1747, p. 665. *Erroneously marked* iv.)

*London*, 1746-47

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**Knight**, Gowin—*continued.*

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(*Vide* also Waddel and Knight.)

† **Knoblauch**, H. Über das Verhalten krystallisirter Körper zwischen elektrischen Polen. 8vo. 13 pp. (*Königl. Akad. der Wissenschaft. zu Berlin mitgetheilt am* 1 *Mai*, 1851.) *Berlin*, 1851

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† Über die Veränderungen, welche der Entladungsstrom einer elektrischen Batterie erleidet, wenn mit dem Schliessungs drathe eine zweite Batterie in Verbindung gesetztwird. 8vo. 77 pp. 1 plate. (*Sitzungsb. Wien Akad.* i. 1852. *Dated Meiningen*, 1848.) *Wien*, 1852

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† Versuche zur Theorie des Condensators. 8vo. 19 pp. (*Sitzungsb. Wien Akad.*) *Wien*

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(On) Krystallelectricität and his invented Gems bartelectroscopes.

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*Note.—This is followed (at p.* 155*) by a "Nachschrift" signed by Erdmann; and Erdmann wrote "Nachtragliche Bemerkungen" to it in a separate article.*

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† Die Galvanographie (von ihm erfunden). (1st ed.) 8vo. *Nürnb.* 1842

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**Koestlin**, C. H. Examen experimentor. quorumd. effectus magnetis chimicos spectant. 4to. *Tubingen*, 1813

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† **Kohl**, F. Die optisch-mechanische und elektro-magnetische Telegraphie 2te Aufl. 8vo. 47 pp. 3 plates. *Leipzig*, 1850

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Sollte die Elektricität wirklich die Wärme verursachen, und sollte diese Wärme eine Wirkung der Zersetzung des Elementarfeuers und Phlogistons seyn? 8vo. *Weimar*, 1787

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† De nova magnetismi intensitatem metiendi methodo, &c. 8vo. 37 pp. 1 plate. *Bonnæ*, 1848

† **Kolk** (Van der), H. G. S. Specimen physicum de methodis quibus resistentia galvanica determinatur, metallorum imprimis . . . (pro gradu Doctoratus). La. 8vo. 119 pp. *Trajecto ad Rhenum*, 1860

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† **Kopp, E.** Considerazioni sulla differenza . . fra la forza . . del Vapore e l'elettro-magnetismo. . . . Fol. 4 pp. (*L'Economista*, anno iii. vol. ii. p. 118.) *Milano*, **1845**

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Ausführl. Darstell. d. Selbstverbrenn d. menschl. Körpers. 8vo. *Frankf.-a.-M.* **1811**

(*Vide* also Liebig and Kopp.)

† **Kostlin, K. H.** Dissertatio physica experimentalis de effectibus electricitatis in quædam corpora organica. (Thesis.) 4to. 36 pp *Tubingæ*, **1775**

**Koten, J. H. Van.** De galvanische stroom, toegepast op electro-magnetische telegrafen en uurwerken. 8vo. viii. and 147 pp. 4 plates lith. (Hassels. 2 fl. 50 ct.) (*From Zuchold's Cat.* 1856, p. 68.) *Amsterdam*, **1856**

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† De elektro-magnetische telegrafie, in de voornaamste tijdperken van hare ontwikkelingen en haar teegenwoor digstandpunt; benevens de elektro-magnetische seinklokken en uurwerken. 8vo. 283 pp. 8 plates. *Amsterdam*, **1862**

† **Krafft,** *Georg Wolfgang. Born July* 15, 1701, *at Tuttlingen, Wirtemb.; died June* 12, 1754, *at Tübingen.*

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(*Poggendorff*, i. 1309, *says*, "*Prælectiones academicæ publicæ in Physicam theoreticam*, iii. plates, *Tubing.* 1753-4.")

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**Kramer,** Anton. Johan de. *Born July* 21, 1806, *at Milan; died September* 25, 1853, *at Tremezzo um Comer See.* (*Giorn. I. R. Ist. Lomb.* Nuova S. ix. 165, in 4to. 1856.)

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† Nuovo apparato rotatorio elettro-magnetico messo in moto dal magnetismo terrestre. Nota comunicata alla Bibliot. Ital. da Ant. D. Kramer di Milano. 8vo. 6 pp. 1 plate. (*Bibl. Ital.* lxxxix. 163.) *Milano*, 1838

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† **Kramer e Belli.** Sulla produzione dell' Ozono per via chimica, di C. F. Schonbein. Traduzione. Parte prima. 8vo. 66 pp. (*Giorn. I. R. Ist. Lomb.* ix. 397.) *Milano*, 1844

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† L'Ozono non è acido . . . nitroso-nitrico. (Nota spedita dall' Autore Schonbein ai Tradutori posteriormente al Congresso.) 8vo. 9 pp. (*Giorn. I. R. Istit. Lomb.* x. 258.) *Milano*, 1845

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**Kravogle.** Electromagnetische Motor. 8vo. 16 pp. 2 plates. *Wien*, 1868

**Krazenstein,** Christian Gottlieb. *Born January* 30, 1723, *at Wernigerode; died July* 6, 1795, *at Copenhagen.*

Abhandlung üb. den nuzen der elektricität in der artzneywissenschaft. 2nd edition. 8vo. *Halle*, 1745

(*Poggendorff*, i. 1364, *adds:* "*Unter d. Titel-Physikal Breife vom Nutzen d. Elektr. u.s.w. Ib.* 1746 *u.* 1772.")

† Theoria electricit. more geometrico explicata. 4to. 62 pp. 1 plate. *Halle*, 1746

Progr. quo historiam restitutæ loquelæ per electrificationem recenset. 4to. *Hafniæ*, 1753

Vorless. üb. d. Experim. Physik. 1st edition. *Kopenhagen*, 1758

De transmut. aquæ in terram. Diacrisis hypotheseos Franciniana de electricit. 4to. *Hafniæ*, 1778

† Vorlesungen üb. d. Experim. Physik. 4th edition. *Kopenhagen*, 1781

Vorlesungen über exp. Physik. 5 Aufl. vermehrte. 12mo. 232 pp. (*Volta's copy.*) *Kopenhaven*, 1782

† Vorlesungen über die Experimental Physik (vermerhte Auflage.) 6th edition. 8vo. 232 pp. *Kopenhaven*, 1787

(*In this 6th edition he says that the book is an extract-abbreviation from his Latin "System der Naturlehre."*)

**Kratzenstein,** C. A. Tentamen resolvendi problema geographico-magneticum ab Acad. Petrop. propositum. 4to. *Petropoli,* 1798

**Krayenhoff,** Cornelius Rudolph Theodor von. *Born June* 2, 1758, *at Nymwegen; died November* 24, 1840, *at Nymwegen.*

De l'application de l'électricité. . . (*Vide* Troostwyk, Van.) 1788

**Krecke,** F. W. C. Description de l'observatoire météorologique et magnétique à Utrecht. *Utrecht,* 1848

**Kreil,** Karl. *Born November* 4, 1798, *at Ried.*

† Descrizione degli Apparati magnetici e dei metodi con cui si eseguiscono le osservazioni. 4to. 65 pp. 1 plate. *Milano,* 1838

*Note.—This is a description by Kreil of the Apparatus used at Milan, and is appended to Frisiani's translation of Gauss,* "*Misura assoluta,*" p. 133, *in the Primo Supplemento alle Effemeridi di Milano,* 1838.

Magnet. und meteorol. Beob. zu Prag Järhlich (seit Aug.) 1839-48

Astro-meteorolog. Jahrbuch fur Prag. 4 jahrg. 1842-5

† Magnetische und geographische. Ortbestimmungen in Böhmen. Ausgeführt in den Jahren 1843-5 von K. Kreil. 4to. 95 pp. 2 plates. *Prag,* 1846

† Lettera a P. Frisiani sulle osservazioni magnetiche fatte in Lombardia 4to. 3 pp. (*Giorn. dell' I. R. Istit. Lomb.* Nuova Serie, i. 111.) *Milano,* 1847

Jahrbücher für Meteorologie und Erdmagnetismus von Kreil. 8 vols. 4to. *Wien,* 1848-61

Beschreibung meteorolog. Autographen-Instrumente. 4to. (*Sitzungsber. d. Wien Acad.* iii. 1849.) *Wien,* 1849

† Ueber den Einfluss der Alpen auf die Äusserungen der magnetischen Erdkraft. Folio. 46 pp. 4 plates. (*Extr. f. Sitzb. d. Wien Acad.* ii. 1849.) *Wien,* 1849

† Apparate für magnetische Beobachtungen. 8vo. 3 pp. (*Sitzungb. d. Akad. d. Wissensch.* 1850, i. Heft. p. 129.) *Wien,* 1850

† Mittheilung über das auf der Prager Sternwarte aufgestellte Inductions Inclinatorium, und über ein authographes Thermometer aus Zinkstangen. 8vo. 5 pp. (*Aus d. Juniheft des Jahrg.* 1850 *d. . . . K. Akad. d. Wissen. besonders abgedruckt.*) *Wien,* 1850

Entwürf eines Meteor-Beobachtungs-system für die Österreich Monarchie (*From Atti I. R. Ist. Lomb.* ii. 114.) *Wien,* 1850

Uber magnet Variations-Instrumente. 4to. (*Sitzungsber. d. Wien Acad.* iv. 1850.) *Wien,* 1850

† Beschreibung der, an der Kaiserl. Königl. Sternwarte zu Prag, aufgestellten selbstverzeichnenden meteorologischen Instrumente: Windfahne, Winddrucke, Regen- und Schneemesser. 4to. 8 pp. 2 plates. *Prag,* 1851

† Berichte über d. Central-Anstalt für Meteorologie u. Erdmagnetismus. 4to. (*Sitzungsb. der Wien Acad.* viii. and ix. 1852.) *Wien,* 1852

Einfluss des Mondes auf die magnetische Declination, und auf die Intensitat der horizontalen Componente der magnetischen Erdkraft. 2 vols. 8vo. *Wien,* 1852-3

† Über d. Einfluss d. Mondes auf d. magnet Declination. La. 4to. 47 pp. (*Denkscrift d. Wien Acad.* iii. 1852.) *Wien,* 1852

Vortrag üb. d. Central-Anstalt d. Meteor u. Erdmagnetismus. 1852

Der Magnetismus auch ein Räthsel.

† Magnetische und geographische Ortsbestimmungen im südöstlichen Europa und einigen Küstenpunkten Asiens. 8vo. 22 pp. (*Sitzungsb. d. Wien Acad.* xxxvi. No. 16.) *Wien*

† Einfluss des Mondes auf die horizontale Componente der magnetischen Erdkraft. Gelesen . . . am . . . 11 März, 1852. La. 4to. 56 pp. (*Denkschriften Wien Acad.* v. 1853.) *Wien,* 1853

**Kreil, Karl**—*continued.*

Jahrbücher der K. K. central Anstalt für Meteorologie und Erdmagnetismus. Von Karl Kreil . . . herausgegeben durch die Kaiserlich Akad. der Wissech.

I. Bd. Jahrgang 1848-9, printed in 1854, 420 pp. 2 plates (wood).
II. Bd. Jahrgang 1850, printed in 1854, 257 pp.
III. Bd. Jahrgang 1851, printed in 1855, 252 pp. Anhang von Fritsch. 44 pp.
IV. Bd. Jahrgang 1852, printed in 1856, 352 pp. Anhang von Fritsch. Table, &c. 54 pp. At p. 213 (of this vol. iv.) Perspective View and Plan of the House, &c. At p. 215 Perspective View of the interior of the old Observatory.
V. Bd. Jahrgang 1853, printed in 1858
VI. Bd. Jahrgang 1854, printed in 1859.
VII. Bd. Jahrgang 1855, printed in 1860.
VIII. Bd. Jahrgang 1856, pp. 131 and 145, printed in 1861.
IX. Bd. Jahrgang.
X. Bd. Jahrgang.
XI. Bd. Jahrgang.
XII. Bd. Jahrgang 1867, printed in 1869.

4to.

*This is the 4th vol. of the "Neue Folge." The authors are Jelenck and Fritch.*

Mehre Aufsätze in Poggend. Ann.

† Kurz Abriss der Entstehungs- und Entwicklungs geschichte des magnetischen Vereins, und nähre Beleuchtung des Standpunktes welchen Prag darin einnimt. 4to. 31 pp.

† Bestimmungen einiger Längenunterschiede mittelst des elektromagnetischen Telegraphen. 8vo. 15 pp. (*Aus d. fünften Heft d. Sitzungsberichte d. K. Akad. d. Wissensch. besonders abgedruckt.*) *Wien*

† Resultate aus den magnetischen Beobachtungen zu Prag. 4to. 3 plates. 44 pp. (*Aus dem* viii. Bde. *der Denkschriften der . . . K. Akad. d. Wissensch. besonders abgedruckt.*) *Wien*, 1855

† Magnetische und geograp. Ortbestimmungen an den Küsten des Adriatischen Golfes im J. 1854. 4to. 46 pp. 1 plate. (*Aus dem* x. *Bande der Denkschriften . . . de K. Akad. d. Wissensch. in Wien besonders abgedruckt.*) *Wien*, 1855

Erste Ergebnisse der magnetisch. Beobachtungen in Wien. 4to. *Wien*, 1856

† Anleitung zu den magnetischen Beobachtungen. 2 vermehrte Auflage. La. 8vo. 216 pp. (*Als Anhang zum* xxxii. *Bande der Sitzungsberichte der K. Akad. der Wissenschaften.*) *Wien*, 1858

† Magnetische u. geograph. Ortbestimmungen im südöstlichen Europa u. einigen Küstenpunkten Asiens. 4to. 8 plates. 94 pp. (*Vorgelegt* 24 *June*, 1859. *K. Akad d. Wissensch.*) *Wien*, 1862

† **Kreil u. Fritsch.** Magnetische und geograph. Ortsbestimmungen im österreich. Kaiserstaate. 1—5 Jahrg. pro 1846-47-48-50-51. 4to. 2 vols. (*Vide Heinsius von Schiller*, vol. ix. *for further particulars*, p. 535.) *Prag*, 1848-9-50-1-2

Magnetische und geographische Ortsbestimmungen in Oesterreich. 4to. 5 vols.? *Prag*, 1848-52

† **Kreil** and others. Magnetische und Meteorologische Beobachtungen zu Prag, in Verbindung mit mehreren Mitarbeitern ausgefürt und auf öffentliche Kosten herausgegeben.

1841-47, Jahrgänge i.-vii. vom 1839-46 von Kreil, K.
1848-51, Jahrgänge viii.-x. vom 1847-49 von Kreil und Jelinck.
1853-55, Jahrgänge xi.-xiii. 1850-52 von Bohm und Künes.
1856-62, Jahrgänge xiv.-xxii. 1853-61 von Bohm und Karlinski.
1863-66, Jahrgänge xxiii. 1862. . . Von Bohm und Moritz Allé.
4to. Vol. i. 1 plate; ii. 1 pl.; iii. 2 pls.; iv. 1 pl.; x. 2 pls. *Prag*

(*Note.—Each Jahrgang is a volume.*)

† **Kreil e Vedova.** Osservazioni sull' intensità e sulla direzione della forza magnetica istituite negli anni 1836, 1837, 1838 all' I. R. Osservatorio di Milano da C. Kreil e P. della Vedova. 4to. 341 pp. (*Forms the "Secondo Supplemento alle Effemeridi di Milano."*) *Milano*, 1839

**Kress,** G. L. Die Galvanoplastik für industrielle und Kunstlerische Zwecke. Resultate 26 jähriger Erfahrungen. 8vo. 112 pp. *Frankfurt-a.-M.* 1867

**Kries,** Friedrich Christian. (*Born October* 18, 1768, *at Thorn, West Prussia; died June* 28, 1849, *at Gotha.*)

Over de oorzaken der aardbevingen. 8vo. *Utrecht*, 1820

Von den Ursachen der Erdbeben; eine Preisschrift zur Beantwortung der Frage; Welches sind die nächsten Ursachen der Erdbeben? Müste man die elektrische oder die galvanische Kraft mit unter diese Ursachen zählen, oder sind die Erscheinungen, welche man nicht selten bey Erdbeben wahrnimmt, für Mitwirkungen der nehmlichen Ursache zu halten. 8vo. *Utrecht*, 1820

Über Muncke's Erklär. d. elektromagnet. Erscheinungen. 8vo. (*Gilb. Ann.* lxxi. 1822.) *Leipzig*, 1822

Von d. magnet. Erscheinungen. 8vo. (*From Poggendorff*, i. 1320.) *Leipzig*, 1827

Von den Ursachen der Erdbeben und von Magnetischen Erscheinungen, &c. (Electy.) Zwey Preisschriften. 8vo. 151 pp. 1 plate. *Leipzig*, 1827

Uber e. Wetterschlag auf d. Leuchtthurm von Genua. 8vo. (*Pogg. Ann.* xii. 1828.) *Leipzig*, 1828

De nexu inter terræ-motus, vel montium ignivomorum eruptiones, et statum atmosphæræ. (Gekronte Preisschrift.) 4to. (*Nova Acta Soc. Jablonowsk* iv. 1832.) 1832

† **Kromhout,** J. H. Projet d'un Diastimètre électrique pour les Batteries de Côte. 8vo. 24 pp. 4 plates. *La Haye*, 1867

**Kruger.** Meditations on Electricity. (*Vide* Priestley.)

Change of colour in bodies by Electricity. (*Danzig Mem.* i. 417.)

**Kruger,** Georg. Prodromus auroræ boreæ seu historiæ meteorologicæ teutonico-curlandicæ &c. d. i. Vortrab. teutscher und Kurlandischer Gewitter-historie, durch die wahre naturliche Astrologie bewehret u.s.w. 4to. *Riga*, 1700

**Kruger,** Johann Gottlob. (*Born June* 15, 1715, *at Halle; died October* 6, 1759, *at Brunswick.*)

Zuschrift an seine Zuhörer, worinn er ihnen seine Gedanken von der Elektricität mittheilet, und ihnen zugleich seine kunftigen Lectionen bekannt macht. 8vo. *Halle*, 1744

Gedanken von d. Elektricität u.s.w. 2nd edit. 8vo. *Halle*, 1745

Geschichte d. Erde in d. allerältesten Zeit. 8vo. *Halle*, 1746

(*Poggendorff*, i. 1322, *says: "Angehängt ist Abhandl. von d. Elektricität und darin wird die erste öffentl. Nachricht von d. Kleist'schen Verstärkungsflasche gegeben."*)

Abhandlung von der Elect.; als ein Anhang bey dessen Geschicht der Erde . . nebst einigen Breifen des Von Kleist. . 8vo. *Halle*, 1746

Gedanken von d. Ursache d. Erdbeben u.s.w. 8vo. (*From Poggendorff*, i. 1323. *Halle*, 1756

Diss. de electricitatis Musschenbrockianæ in sanandis morbis efficacia. 4to. (*From Poggendorff*, i. 1323.) *Helmstadt*, 17

**Krumme,** W. De conditione magnetica compositionum quarumdam cupri. Dissertatio. 8vo. 27 pp. *Bonnæ*, 1858

**Krunitz**, Johann Georg. (*Born March* 28, 1728, *at Berlin; died December* 20, 1796, *at Berlin.*)

† Verzeichnis der vornehmsten Schriften der Electricität und den electrischen Curen. 8vo. 200 pp. *Leipzig*, 1769

† Priestley's Geschichte der Elektricität (Übersetzung.). 4to. *Berlin*, 1772
(*Vide* also Kirtz.)

**Krziwaneck**, J. De electricitate acupunctura Perkinismo et frictione. 8vo. *Prag*, 1839

**Kuhlberg**, A. Analyse und Beschreibung der Meteorite von Neft, Honolulu, Lixua und eines im Gouvernement Jekatherinoslaw gefallenen Meteoriten. 8vo. 34 pp. 2 plates. (*Aus dem Archiv fur die Naturkunde Liv. Esth. und Kurlands abegrdkt.*) *Dorpat*, 1865

† **Kuhn**, C. Handbuch der angewandete Electricitätalehre. 8vo. 1396 pp. (*Karsten's Encyclopædie, i.e. Encycl. Allgemeine.*) *Leipzig*, 1866

**Kuhn**, Karl Gottlob. (*Born July* 13, 1754, *at Spergau, near Merseburg; died June* 19, 1840, *at Leipzig.*)

Traité de l'électricité. (*From* Kuhn, 1873, p. 89.) 1771

† Geschichte der medicinischen und physikalischen Elektricität und den neuesten Versuche. . . Erster Theil. 8vo. 278 pp. 4 plates. *Leipzig*, 1783

† Geschichte der medicinischen und physikalischen Elektricität und den neuesten Versuche. . . Zweiter Theil. 8vo. 392 pp. 2 plates. *Leipzig*, 1785

Anwendung und Wirksamkeit der Elektricität zur Erhaltung &c. . . der Gesundheit des menschlichen Korpers; aus dem Franz des Berthollon übersetzt; und mit newen Erfahrungen bereichert und bestatiget. 8vo. 2 Th. Plates. 1788-9

Etwas über die Kuren des Hrn. Grafen von Thun aus physikalischen und medicinischen Gesichtspunkten betrachtet. *Leipzig*, 1794

† Die neuesten Entdeckungen in der physikalischen und medicinischen Elektricität. Als eine Folge der Geschichte. . . Erste Theil. 8vo. 273 pp. *Leipzig*, 1796

† Die neuest Entdeckungen in der physikalischen und medicinischen Elektricität. . Als eine Folge der Geschichte. . . Zweiter Theil. 8vo. 240 pp. 1 plate. *Leipzig*, 1797

Über Blitzableiter; Über d. Principien d. Telegraphie im Allgem. u. jene d. elektr. Telegraphie insbesondere. "In d. Gelehrt Anzeigen d. Königl. bayer Acad. von 1851 u. 1852;" *or*, in "Astronom Kalender 1850-52." 1851-2

(*Note.—It seems uncertain which this entry belongs to, or whether to both. Kühn says: "The Royal Medical Society of Paris has published in the 2nd part (Theil) of its Writings, the account, which I had given to it, of the results of my treatment of* 82 *patients, and in the Historical Part (Theil) of the 3rd vol. the continuation of my cures.*")

(*Vide* also Reitlinger and Kühn.)

† **Kuhnert**, E. H. Über die Quelle der galvanischen Elect. Inaugural Dissertation. 8vo. 49 pp. 1 plate. *Marburg*, 1842

**Kulenkamp**, N. Die Elektricität in Bremen. 1743

† **Kulp**, E. Lehrbuch der Experimental-Physik. 3 Bd.; Die Lehre von der Elektricität und dem Magnetismus. 8vo. 542 pp. *Darmstadt*, 1863

**Kumpel**, J. A. F. De magnetismo. 4to. *Jenæ*, 1788

**Kunemann**, Machines (elect.) en caoutchouc. (*From Du Moncel, who gives no other particulars.*)

† **Kunneman.** (*Vide* Fabre and Kunneman.)

**Kunes.** (*Vide* Kreil and others, and also Bohm and Künes.)

† **Kunze,** Karl Sebastian Heinrich. *Born February* 2, 1774, *at Kiel; died May* 30, 1820, *at Flensberg.*

† Besch. e. elek. Apparatus für Schulen. zur Erklärung der Gewittermoterie. 8vo. 56 pp. 1 plate. *Hamburg*, 1796

Schauplatz d. gemeinnützigst Machinen, nach J. Leupold u. Anderen bearbeitet. 3 Bde. 8vo. *Hamburg*, 1796-1802

Neue elektrische Versuche. 4to. (*From Young*, p. 416.)

**Kunze,** F. H. Einige Bermerk üb. d. Galvan. in phys. chem. und med. Hinst. 8vo. *Hamburg*, 1804

**Kunzek,** A. Atmosphärische Elektricität. 8vo. (*Leicht fassliche Darstellung d. Meteorol.* p. 174.) *Wien*, 1847

**Kupffer,** Adolphe Theodor. *Born Jan.* 6, 1799, *at Mitau.*

Theorie des phénomènes électro-dynamiques, uniquement déduits de l'expérience. 4to. *Paris*, 1826

Variation d. magnet Intensitat in Kassan u. Einfluss d. Nordlichts auf d. Magnetnadel. 8vo. (*Poggend. Ann.* x. 1827.) *Leipzig*, 1827

Über d. Vertheil d. Magnetism in Magnetstäben. (*Poggend. Ann.* xii. 1828.) *Leipzig*, 1828

Wärme-Einflusses auf d. Magnetnadel. 8vo. (*Poggend. Ann.* xvii. 1829.) *Leipzig*, 1829

† Instructions pour faire des Observations météorologiques et magnétiques. 8vo. 83 pp. 2 plates. *Petersburg*, 1836

† Recueil d'Observations magnétiques faites à St. Pétersbourg, et sur d'autres points de l'empire de Russie; par A. T. Kupfer et ses collaborateurs, et publié par ordre de l'Acad. en Déc. 1857. 4to. 717 pp. 3 plates. *Petersburg*, 1837

Annuaire magnétique et météorologique du Corps des Ingénieurs des Mines de Russie, 1837-46, 10 vols 8vo. *St. Petersburg*, 1839-49

Observations météorologiques et magnétiques faites dans l'étendue de l'empire de Russie. 20 vols. 4to. *Pétersbourg*, 1837-39-48 ?

† Sur les Observations magnétiques fondées par ordre des Gouvernements d'Angleterre et de Russie sur plusieurs points . . 8vo. 11 pp. (*Rapport addressé à l'Acad. des Sciences de Pétersbourg.*) 1840

De l'influence de la température sur la force magnétique des barreaux. (*Bull. Phys. Math. Acad. Petersb.* i. 1843.) *Petersburg*, 1843

† Rapport sur les Observations faites à l'Observatoire magnétique . . de Helsingfors. 8vo. 13 pp. *Petersburg?* 1848

Annales de l'Observatoire physique central de Russie, an. 1847-54. 8 vols. 4to. *Pétersbourg*, 1850-56

(*Vide* also Keferstein and Kupffer.)

Annales de l'Observatoire physique central de l'empire de Russie publié par ordre de l'Empereur, ans. 1851-55. 9 vols. 4to. 1853-59

**Kuyper.** (*Vide* Cuypers.)

**Kyper** (Kieper), A. Disp. de fulmine quod a. 1636 . . turrim nitrariam aulicam Regiomonti percussit. 1637

# L.

**Labarte.** L'émaillerie dans l'antiquité et au moyen age. 8vo. (*From Martin*, p. 105.) *Paris*, 1857

**La Borde,** Jean Baptiste de. *Died* 1777, *at Colancelle.*

Le Clavissin électrique; avec une nouvelle théorie du méchanisme et des phénomènes de l'électricité. 8vo. 164 pp. *Paris*, 1761

**Laborde.** Note sur un nouveau Télégraphe électrique, dont les indications sont données au moyen du son. 4to. (*Comptes Rendus*, xxi. 526.) *Paris*, 1845

† **Labrosse,** F. Dés aimatation des Navires en fer d'après la méthode de E. Hopkins. Trad. de l'Anglais. Réduction des Déviations des Compas et résultats des expériences à bord du Northumberland et de la Charente. 8vo. 80 pp. 2 plates. 1868

**Lacam.** Thoughts on Magnetism. 8vo. (*From Young*, p. 437.)

† **Lacassagne et Thiers.** Nouveau système d'éclairage électrique, ses avantages, ses instruments, &c. . . avec Pièces justificatives; Rapport de la Société d'Encourag. Programme de la Commission du Ministre de la Marine, &c. 8vo. 142 pp. *Paris et Lyon*, 1857

† **La Cépède.** Essai sur l'électricité naturelle et artificielle. 2 vols. 8vo. vol. i. 375 pp.; vol. ii. 389 pp. *Paris*, 1781

† Théorie des Comètes, pour servir au système de l'Electricité universelle, suivie d'une lettre critique sur l'attraction. 8vo. 71 pp. *London et Paris*, 1784

**Lacoste.** (*Vide* St. Martin and Lacoste.)

**Lacour,** Sec. Acad. Bordeaux. Rapport sur les travaux de l'Acad. pendant 1822. 8vo. (*Séances de l'Acad. de Bord. pro* 1822.) *Bordeaux*, 1822?
(*Contains references to two Mem. on Meteorology and Electricity by Billaudel.*)

Rapport sur les travaux de l Acad. pendant 1823. 8vo. (*Séances de l'Acad. de Bord. pro* 1824.) *Bordeaux*, 1823
(*Contains references to a 1st Mem. on the Meteor of 17th Feb.* 1823 *and to a 2nd Mem. on Meteorology.*)

† **Lacroix,** F. Essai sur l'Induction électrique. 8vo. 45 pp. 1 plate. *Grenoble*, 1864

† **Lacy,** H. de. Du Galvanisme médical. Conseils aux malades sur l'emploi du Galvanisme. . . 8vo. 32 pp. *Paris*, 1849

† **Lafollye.** Appendice à un Mémoire sur un nouvel appareil électrique. 4to. 14 pp. Lithographed MSS. *Bordeaux*, 1857

**La Garde,** De. Elettricità celest. 8vo. *Modena*, 1753

**Lagrange, Laplace,** &c. Rapport sur un nouveau télégraphe, des Cit. Bréguet et Bétancourt. Dated "21 germinal an. 6." 4to. 11 pp. (*Mém. de l'Institut* iii. 22. *Cl. Sci. Mathém.*) *Paris*, 1798

**Lagrave.** Expériences galvaniques sur les aveugles. 4to. (*Journ. de Phys.* an. xi. p. 159.) *Paris*, 1830

Expériences tendantes à prouver que les lois du galvanisme semblent différer de celles de l'électricité. 4to. (*Journ. de Phys.* Ventose, an. xi. p. 223. *Extrait.*) *Paris*, 1830

Expériences galvaniques tendantes à prouver que nous avons deux fluides dans l'économie animale, l'un positif, et l'autre négatif, qui paraissent produire dans leur ensemble l'agent de la vitalité. 4to. *Paris*, 1803

Expériences sur le galvanisme de la pile de Volta, plongée dans l'eau. 4to. (*Journal de Phys.* xi. p. 472 and xi. p. 140.) *Paris*, 1803

Expériences galvaniques tendantes à prouver que l'oxide qui se forme sur la surface des disques métalliques de la pile, ne rend pas absolument nul l'effet de son action . . qu'il a même la propriété de remplacer les rondelles de drap mouillé, et même de conserver son action 15 à 20 jours. 4to. *Paris*, 1803

**La Hire,** De. Letter concerning a new sort of magnetical Compass, with several curious magnetical experiments. 4to. (*Phil. Trans.* 1687, p. 344.) *London*, 1687

**Lair.** Essai sur les combustions humaines produits par un long abus des liqueurs spiritueuses, &c. *Paris*, 1800

**Lalande,** Joseph Jérome le François de. *Born July* 11, 1732, *at Bourg-en-Bresse; died April* 4, 1807, *at Paris.*

Observations sur les nouvelles méthodes d'aimanter, et sur la déclinaison de l'aimant. 4to. (*Mém. de Paris.*) *Paris*, 1761

Lettre sur un Météore extraordinaire adressée à Messrs. les Auteurs du *Journal des Savans.* *Paris*, 1771

Une notice sur la découverte du Galvanisme. (*Journ. des Savans*, Nov. 1792.) *Paris*, 1792

Abrègé de l'Astronomie.

*Note.—On Aurora*, p. 101 *et seq. says that "les Aurores boréales électrisent les pointes isolées placées dans de grands tubes de verre."*

† **Lallemand.** Thèse . . études sur les lois de l'Induction à l'aide de la Balance électro-dynamique. 4to. 42 pp. 1 plate. *Paris*, 1851

**Lambert,** Alexandre. Historique de la télégraphie, ses phases, ses systèmes divers. 8vo. 44 pp. *Paris*, 1862

† **Lambotin.** Observations sur les Pierres météoriques. 8vo. 7 pp. *Paris*, 1814

**Lambron,** E. Etudes expérimentales sur le dégagement d'électricité dans les eaux sulfureuses de Bagnères de Luchon. 8vo. 47 pp. (*Extrait des Annales de la Société d'hydrologie médicale de Paris*, tom. ii.) *Paris*, 1865

**Lameillière.** (*Vide* Lavialle de Lameillière.)

**Lamé,** Gabriel. *Born July* 22, 1795, *at Tours.*

Cours de physique. 8vo. 2 vols. *Paris*, 1837

**La Métherie,** Jean Claude de. *Born September* 4, 1743, *at Clayette, Mâconnais; died July* 1, 1817, *at Paris.*

Essai analytique de l'air pur, et des différentes espèces d'air. 8vo. *Paris*, 1785 (*Note.—There is a 2nd edit. of* 1788, 2 vols. *Kahn N. Entdeck.* i. 15, *refers to the German version of this 2nd edit.* vol. i. pp. 297-310, *on the subject of the electric spark being a real combustion.*)

Réflexions sur l'Elect. animale. 4to. (*Journ. de Phys.* xlii. p. 252.) *Paris*

Discours préliminaire. 4to. (*Journ. de Phys.* liii.) *Paris* (*Note.—Contains his Résumé sur l'Hist. du Galvanisme.*)

Discours préliminaire. 4to. (*Journ. de Phys.* liv.) *Paris* (*Note.—Contains his continuation of Résumé sur l'Hist. du Galvanisme.*)

† Estratto di una Lettera . . . a Brugnatelli sopra diversi argomenti. 8vo. (*Ann. di Chim. di Brugnatelli*, xix. 156.) *Pavia*, 1802

Suite des expériences galvaniques sur l'irritabilité de la fibrine et la décoloration du sang. 4to. (*Journ. de Phys.* Pluviose, an. xi. p. 161.) *Paris*, 1803

**Lami.** (*Vide* Lamy.)

† **Laming,** Richard. On the primary forces of Electricity. 8vo. 24 pp. (*Phil. Mag.* June, 1838.) *London*, 1838

† De l'application des axiomes de la mécanique, &c. . . . au phénom. de l'élect. 8vo. 28 pp. 1 plate. *Paris*, 1839

**Lamont,** Johann. *Born December* 13, 1805, *Braemar, Scotland.*

Ueber das Verhältniss der magnetischen Intensitäts und Inclinations-Störungen. 8vo. 12 pp. (*Sitzungsb. d. K. Bayer Akad. d. Wiss.* vom. 14 Juni, 1862, p. 76.) *München*, 1862

† Über das Verhalten des Nadelmagnetismus bei Temperaturänderungen. (*Gelehrte Ans. herausg. von Mitgl. der Bayer Akad. d. Wissensch.* xiii. 1005.) *München*, 1841

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Astronom. Kalender für das Königreich Bayern mit Beiträgen von Prof. Kuhn, Meister, Pollak, Jahrgang, 1850, 1851, 1852-53.

Jahrisbericht der Münchener Sternwarte.

† Über däs magnetische Observatorium der K. Sternwarte bey München. Eine offentliche Vorlesung gehalten in der förmlichen Sitzung der K. Akad. . . am 25 Aug. 1840. 4to. 56 pp. *München*, 1841

† Bestimmung der Horizontal Intensität des Erdmagnetismus aus absoluten Maas. 4to. 53 pp. 1 plate. (*Abhandl. d. Mathem. Phys. Cl. d. K. Bayeris. Akad. d. Wissen.* iii. 619, pro 1842 and 1843.) *München*, 1842

† Annalen für Meteorologie, Erdmagnetismus und verwandte Gegenstände redigert von Grunert, Koller, Kreil, Lamont, Plienenger, Stieffel; herausgegeben von Dr. Lamont. Jahrgang, 1842, 1 Heft. 8vo. 1 plate. *München*, 1842

† Resultate der magnetischen Beobachtungen in München währ. der dreijährigen Periode 1840-1-2, 4to. 16 pp. 1 plate. (*Abhandl. d. Math. Phys. Cl. d. K. Bayer. Akad.* iii. 671, pro 1842 and 1843.) *München*, 1843

Magnetismus der Erde. 8vo. (*Repertorium der Physik.*) *Berlin*, 1846

† Resultate des magnet. Observatoriums (*sic*) in München während der dreijährigen Periode 1843-45. 4to. 117 pp. 1 plate. *München*, 1847

† Handbuch d. Erdmagnetismus. 8vo. 264 pp. 6 plates. *Berlin*, 1849

† Beschreibung der an der Münchener Sternwarte zu den Beobachtungen verwendeten neuen Instrumente u. Apparate. 4to. 102 pp. 8 plates. *München*, 1851

† Beobachtungen des meteorologischen Observatoriums auf dem Hohenfreissenberg von 1792-1850, herausg. von Dr. J. Lamont. 8vo. 787 pp. (*1ste Supplementband zu den Annalen der Münchener Sternwarte.*) *München*, 1851

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† Magnetische Karten von Deutschland und Bayern, nach den neuen Bayerischen und Oesterreichischen Messungen. Fol. 16 pp. 6 maps. *München*, 1854

Theorie der Magnetisirung des weichen Eisens durch den galvanischen Strom. 8vo. 1854

† Magnetische Ortbestimmungen ausgeführt an verchiedenen Puncten des Königreich Bayern, &c. 8vo. 191 and ccxcii. pp. 26 lith. Tapelen. *München*, 1856

Het magnetismus der aarde, populair beschreven. Uit het Hoogduitsch vertaald door W. F. Kaiser, &c. Met eene voorrede en een bijvoegsel, over het magnetismus der zon en maan, door F. Kaiser. 8vo. 112 pp. 1 plate. *Zwolle de Erven*, 1856

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† Untersuchungen über die Richtung und Stärke des Erdmagnetismus in Nord-Deutchland, Belgien, Holland, Dänemark im Sommer des Jahres 1858, ausgeführt und auf öffentliche Kosten herausgegeben. 4to. 91 and xlv. pp. 3 plates. 6 maps. *München*, 1859

Der Erdstrom und der Zusammenhang desselben mit dem Magnetismus der Erde. 4to. 74 pp. 1 plate. *Leipzig*, 1862

† Beitrag zu ein mathem. Theorie d. Magnetismus. 8vo. 18 pp. (*Sitzungsb. d. K. Bayer Akad. d. Wissens.* vom. 11 Juli, 1862, p. 103, ii. Heft ii.) *München*, 1862

† Ueber die zehnjährige Periode in der täglichen Bewegung der Magnetnadel, und die Beziehung des Erdmagnetismus zu den Sonnenflecken. 8vo. 11 pp. (*Sitzungsb. d. K. Bayer Akad. d. Wissen.* vom 14 Juni, 1862, p. 66, ii. Heft ii.) *München*, 1862

† Der Erdstrom und die Telegraphenströme. 8vo. 32 pp. (*Zeitschrift de Österreichischen Gesellschaft fur Meteorologie*, ii. 1. *Prolenum* No. 1, 1st January, 1867.) *Wien*, 1867

† Handbuch des Magnetismus. 8vo. 468 pp. (*Allgemeine Encyclopædie der Physik*, xv. *Band*, (*i.e.*) *completed in* vol. xv.) *Leipzig*, 1867

(*Note.—Pp.* 1 *to* 203, *Bd.* ii. *printed in* 1863; *pp.* 209 *to* 256, *Bd.* vii. *printed in* 1864; *pp.* 257 *to* 416, *Bd.* vii. *printed in* 1864; *pp.* 417 *to* 469, *Bd.* xv. *printed in* 1867.)

Many observations, &c. in the Academies of Munich, Brussels, &c., and in *Poggend. Ann.*

**Lamothe**, Sec. de l'Acad. de Bordeaux. Table méthodique des publications de l'Acad. de Bordeaux depuis son origine. 8vo. (*Actes de l'Acad. de B. 9me Ann.* p. 751.) *Bordeaux*, 1847

† **La Motte**, H. J. De. Erfahrung von einem durch die Electricität gehobenen krampfichten Mutterbeschwer, angestellet. 4to. 8 pp. (*Versuche d. Naturf. Gesellsch. in Danzig*, ii. 552.) *Danzig*, 1754

**Lamoureux**, J. V. F. Account of a Fall of Stones at Agen on the 5th Sept., 1814. (Transmitted to the Institut. with specimens.) 8vo. 1 page. (*Phil. Mag.* xliv. 316.) *London*, 1814

**Lampadius**, Wilhelm August. *Born August* 8, 1772, *at Hehlen Herzogth, Brunswick; died April* 13, 1842, *at Freiberg.*

† Versuche und Beobachtungen über die Elektricität und Wärme der Atmosphere, nebst einer Theorie der Luftelektricität, &c. . . 8vo. 200 pp. 3 leaves of Tables. *Leipzig*, 1793

(*Note.—The title-page dated* 1805 *is false.*—F. R.)

Versuche und Beobachtungen über Elektricität und Warme der Atmosphere, nebst einer Theorie der Luftelektricität nach De Luc, &c. . . 8vo. *Leipzig*, 1804

† System. Grundriss d. Atmosphärologie nebst Litteratur derselben. 8vo. 392 pp. *Freybourg*, 1806

Beyträge zur Atmosphärologie. Ein Nachtrag zum Grundrisz d. Atmosphärologie. 8vo. *Freybourg*, 1817

† Grundriss d. Electro chemie. 8vo. or 12mo. *Freybourg*, 1817

Many articles in the Journals of Crell, Tromsdorff, Gehlen, Schweigger, Gren, Gilbert, Kastner, Erdmann, and others. Also some translations.

**Lamy, François.** *Born* 1636, *at Schloss Montereau, Perche; died April* 11, 1711, *at Abtei, St. Denis.* (*Poggendorff*, i. 1363.)

Conjectures physiques sur deux colomnes (*sic*) de Nuë qui ont parus depuis quelques années; et sur les plus extraordinaires effets du Tonnerre: avec une explication de ce qui s'est dit jusqu'icy des Trombes de mer: et une nouvelle addition, ou l'on verra de quelle manière le Tonnerre tombé nouvellement sur une Eglise de Lagni a imprimé sur une nappe d'autel une partie considérable du Canon de la Messe. 12mo. 241 pp. 3 plates.
*Paris*, 1689

A German account of the extraordinary effects of Lightning at the Church of Lagni, printed in the *Hamburg Mag.* iii. 226, and taken from Lamy's French work "Conjectures Phys." . . dated 1696, 12mo. is given in Bauer, Abhandl. 1770, p. 161.
(*Note.—This German account contains a copy of "la partie considérable du Canon de la Messe," which was found printed by lightning upon the altar-cloth, and also of certain parts in red ink not thus reprinted.*)

**Lamy, M.** Note sur les courants électriques engendrés par le Magnétisme terrestre. 8vo. 16 pp. (*Extrait des Mémoires de la Société Impériale des Sciences, de l'Agriculture et des Arts de Lille.*) *Lille*, 1858

**Lana** (Lana Terzi) Francesco de. *Born December* 13, 1631, *at Brescia; died February* 26, 1687, *at Rome.*

Observationes mutationis declinationum magneticarum in eodem locum (*sic*), simul cum inventione qua ipsæ declinationes exactius in posterum observari possunt. (*Acta Nova Acad. Philexoticorum*, No. x.) 16—

Prodromo di alcune inventioni nuove. Folio. *Brescia*, 1670
(*Note.—Method for writing in cypher for telegraphs, and many other inventions.*)

"Eine Mittheilung von ihm in Betreff der Aufhängung von Magnetnadeln an Seidenfäden." (*Acta Erud.* 1686, p. 560.) 1686

Nova methodus construendæ pyxidis magneticæ, &c. (*Acta Nova Acad. Philexoticorum*, No. xi.) 168—

Magisterii naturæ et artis. Third part, 1692, 22nd book, pp. 287-312 (Parmæ) de motu quem vocant attractionis electricæ. 3 vols. Folio.
*Parma and Brixia*, 1684-92

**Lande.** (*Vide* Lalande.)

† **Landgrebe, Georg.** Quædam de electro-chimismo. Dissertatio inauguralis. 8vo. 44 pp. *Marburgi*, 1825

† Naturgeschichte der Vulcane und die damit in verbindung stehenden Erscheinungen. 2 vols. 8vo. *Gotha*, 1855

† **Landi, T. and Falconieri, C.** New process for laying the Submarine Telegraphic Cable, proposed by Thos. Landi and Chas. Falconieri. 8vo. 8 pp. 1 plate.
*Paris*

**Lando.** (*Vide* Mongiardini and Lando.)

† **Landois, H.** Exposé des causes de la coloration des corps et des lois qui régissent la reproduction des couleurs, et Traité de l'électricité, du calorique, de la lumière, suivi de quelques mots sur le magnétisme animal. 8vo. 35 pp. 1 plate. *Paris*, 1857

† **Landriani, J. B.** Nova electricitatis theoria, quam . . in Universitate D. Alexandri . . J. B. Landriani propugnabat . . 8vo. 91 pp. 1 plate.
*Mediolani*, 1755

**Landriani, Marsiglio.** Ricerche . . salubrità dell' aria. 8vo. 92 pp. 2 plates.
*Milano*, 1775

† Osservazioni sulla poca o nessuna affinità che ha l'umido aereo colle materie resinose, e specialmente collo zolfo. 12mo. 11 pp. (*Scelta d'Opuscoli in* 12mo. xv. 102.) *Milano*, 1776

**Landriani, Marsiglio.**—*continued.*

† Lettera al . Volta. (On an improved Electrophorus.) 12mo. 14 pp. 1 plate (*Scelta d' Opuscoli in* 12mo. xix. 73.) *Milano*, 177(

† Gli effetti del Fulmine caduto la sera del 25 Agosto, 1780, nel campanile d Monastero di S. Vincenzo al Castello in Milano. 4to. 6 pp. (*Opus. Scelti*, iii. 328.) *Milano*, 1780

† Dell' utilità dei Conduttori elettrici. 8vo. 304 pp. 1 plate. *Milano*, 1784

Abhandlung vom Nutzen der Blitzableiter. Auf Befehl der Gubernims herausgegeben. Aus dem Italianischen von G. Muller. 8vo. *Wien*, 1786

† Altra ricaduta del propagatore . . ossia ultima risposta contro la difesa dei Paragrandini. Letta all' Ateneo di Venezia. 8vo. 60 pp. *Milano*, 1826

Von einigen Entdeckungen in der thierischen Elektricität. (*Mayer's Samml. Phys. Aufs. der Gesellsch. Böhmischer Naturf.* B. iii. p. 384.) *Prag*

Ueber die magnetische Eigenschaft des Kobolt-Königs. (*Mayer's Samml. Physik. Aufsäze der Gesellsch. Böhmischer Naturf.* iii. 388.) *Prag*

**Lane**, Timothy. *Born June*, 1734; *died July 5*, 1807.

† Description of an Electrometer, invented by Mr. Lane, with an account of some experiments made by him with it, in a letter to B. Franklin . . 4to. 12 pp. 1 plate. (*Phil. Trans.* lvii. p. 451.) *London*, 1768

"Stellte eine Reihe chemisch magnetischer Versuche an." 8vo. (*Monthly Magazine, Dec.* 1805.) *London*, 1805

† On the Magnetic attraction of Oxides of Iron. From the *Phil. Trans.* for 1805. 8vo. 3 pp. (*Phil. Mag.* xxiii. 253.) *London*, 1806

**Lang**, Victor Von. Untersuchungen über die physicalischen Verhältnisse krystalliserter Körper. 1. Orientirung der optis. Elasticitätsaxen in den Krystallen des Rhombischen Systems. Zweite Reihe. 8vo. 45 pp. 5 plates. (*Sitzungb. Wien Acad.* vol. xxxi. No. 18.) *Wien*, 1858

† Über der Einstatit im Meteoreisen von Breitenbach. 8vo. 9 pp. 1 plate. (*Sitzungsber. K. Akad.* lix. Bde. ii. Abth. Apl. Heft, 1869. *Vorgelegt* 29 *April*, 1869.) *Wien*, 1869

(*Vide* also Grailich and Lang.)

**Langberg**, Lorenz Christian. *Born March* 18, 1810, *at Christiansund; died March* 21, 1857, *at Christiania.*

† Jagttagelser over den magnetiske Intensitet paa forskjelligo Steder af Europa. 4to. (small). 25 pp. (*Nyt. Magaz. f. Naturvidenskab.* vol. v.) *Kjöbenhavn*, 1848

Magnetiske Jagttagelser paa en Reise i Christiansands Stift i Sommeren 1848. 4to. (*Nyt. Magaz. f. Naturvidenskab.* vi. 1851.) *Kjöbenhaven*, 1851

**Langenbucher**, Jacob. *Born at Augsburg; died* 1791, *at Augsburg.*

Beschreib. e. Elektrisirmachine. (*From Young*, p. 431.) 1778

† Beschreibung einer beträchtlich verbesserten Elektrisirmachine, sammt vielen Versuchen . . 8vo. 268 pp. 8 plates. *Augsburg*, 1780

Richtige Begriffe vom Blitz und von Blitzableitern. 8vo. *Augsburg*, 1783

Praktische Elektricitäts-lehre. 8vo. *Augsburg*, 1788

**Langguth.** Ueber die Bewegung der Electricität in Körpern, welche eine constante oder mit der Richtung veränderliche Leitungsfähigkeit besitzen. 4to. 24 pp. *Greifswald*, 1865

**Langguth**, G. A. *Born December* 26, 1754, *at Wittenberg; died February* 9, 1814 *at Wittenberg.* (*Poggendorff*, i. 1370.)

De torpedine veterum genere raja. 4to. (*From Dove*, p. 207.) *Wittemberg*, 1784

Opuscula historiam naturalem spectantia. (*From Dove*, p. 205.) *Wittemberg*, 1784

**Langguth**, G. A.—*continued.*

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**Langhansen**, C. De aurora boreali d. 17 Martii observata. (*From Poggendorff*, i. 1371.)

**Langsdorf**, W. Silber als Einheit fur d. Messung d. elektrisch. Leitungswiderstandes. *Heidelberg*, 1851

**Langworthy.** View of the Perkinian Elect. 8vo. 1798

† **Lanjuinais**, T. D. Sur le mémoire sur la Boussole des Orientaux, par T. Hager. 8vo. 8 pp. (*Extrait du Moniteur*, No. 231, 1809.) *Paris*, 1809

**Lanteires**, Jean. Essai sur le Tonnerre considéré dans ses effets moraux sur les hommes, et sur un coup de foudre remarquable; suivis des notes communiquées à l'auteur par M. le Professeur Saussure, à Genève. 8vo. *Lausanne*, 1789

**La Parola.** Foglio di Scienze, Arti, e Belle-lettere, &c. 4to. *Bologna*, 184-?

**La Peyrouse**, Philippe. (Picot de la Peyrouse.) *Born October* 20, 1744, *at Toulouse; died October* 18, 1818.

† Description d'un Météore singulier du 24 Juillet, 1790. 4to. 2 pp. (*Toulouse Acad.* 1re série, iv. 189.) *Toulouse*, 1790

**La Place**, Cyrille Pierre Théodore. *Born November* 7, 1793, *on the sea.*

Voyage autour du Monde par les mers de l'Inde et de la Chine; exécuté sur la corvette de l'Etat la "*Favorite*," pendant les années 1830, 1831, et 1833. 5 vols. et atlas. 8vo. *Paris*, 1833-39

Campagne de circumnavigation de la frégate "*l'Artémise*" pendant les années 1837-38-39-40, sous le commandement de M. Laplace, capitaine de vaisseau, publié par ordre du Roi . . 8vo. *Paris*, 1841

**La Place**, P. S. et **Lavoisier**, A. L. Sur l'électricité qu'absorbent les corps qui se réduisent en vapeurs. 4to. (*Mém. Paris*, 1781.) *Paris*, 1781

† **Lapostolle.** Traité des Parafoudres et des Paragrêles en cordes de paille . . 8vo. 320 pp. &c., also 3 supplements. *Amiens*, 1820

† Trattato sul modo di preservare le abitazioni dal Fulmine e le campagne dalla Grandine. Opera volgarizzata da Bodei. 8vo. 189 pp. 1 table. *Milano*, 1821

† **Laprade.** Mémoire . . sur la question . . quel sont les effets que produisent les Orages sur les animaux . . 8vo. 140 pp. (*Read in the Soc. de Med., Bruxelles, in* 1809.) *Bruxelles*

**Larcher, Daubencourt**, et **Zanetti**, aîné. Observations chimiques faites (par L. &c.) sur différents liquides animaux soumis à l'action galvanique; lues à l'Institut. 8vo. (*Ann. de Chim.* xlv. p. 195.) *Paris*

(*Vide* also Cassius and others.)

**Lardner**, Dionysius. *Born April* 3, 1793, *at Dublin; died April* 29, 1859, *at Paris.* (*Poggendorff*, i. 1379 and 1580.)

(*Note.—It is difficult to find the dates, &c. of the several editions of his various works.—F. R.*)

† Manual of Electricity, Magnetism, and Meteorology. Vol. i. 12mo. 439 pp. (*Vide* Lardner and Walker for vol. ii.) *London*, 1841

Handbook of Philosophy and Astronomy. 3 vols. 1851-53. Vol. ii. Heat, Electricity, and Magnetism. *London*, 1851-3

**Lardner**, Dionysius.—*continued.*

Museum of Science and Art. 12 vols. Post 8vo. *London*, 1854-6

Vol. I. contains: Meteoric Stones and Shooting Stars.
III. ,, Electric Telegraph.
IV. ,, Ditto (concluded).
X. ,, Electro Motive-power—Thunder, &c., and the Aurora.

Populäre Lehre von den electrischen Telegraphen. . . Für angehende Telegraphisten, Eisenbahnbeamte, Techniker, etc. deutsch bearbeitet von Carl Hartmann. 8vo. 137 pp. 5 plates. *Wiemar*, 1856

Handbook of Natural Philosophy (4 vols.) Vol. iv. Electricity, Magnetism, and Acoustics. 12mo. *London*, 1856

† The Electric Telegraph popularised. 8vo. *London*, 1859

† Handbook of Electricity, Magnetism, and Acoustics. Seventh thousand. Edited by G. C. Foster. 8vo. 442 pp. *London*, 1866

† **Lardner** and **Walker**. Manual of Electricity, Magnetism, and Meteorology. Vol. ii. 12mo. 550 pp. *London*, 1844

**La Rive**, Auguste Arthur De. *Born October 9, 1801, at Geneva*

† De l'action qu'exerce le globe terrestre sur une portion mobile du circuit voltaïque. (Lu 4 Septembre, 1822, Ampère assistait.) (*Bibliot. Universelle*, Sept. 1822.) (*From Arago's copy.*) *Genève*, 1822

† Mémoire sur quelques-uns des phénomènes que présente l'électricité voltaïque dans son passage à travers les conducteurs liquides. 8vo. 32 pp. (*Ann. de Chim. et de Phys.* 1825.) (*Extrait.*) *Paris*, 1825

† Recherches sur le mode de distribution de l'électricité dynamique dans les corps qui lui servent de conducteurs. (Read December, 1823.) 4to. 21 pp. (*Mém. de la Soc. de Gen.* tom. iii. pt. i. p. 109.) *Genève*, 1825

Analyse des circonstances qui déterminent le sens et l'intensité du courant électrique dans un élément voltaïque. 8vo. (*Ann. de Chim.* xxxvii. 225.) *Paris*, 1828

† On the power of Water and Bromine in conducting Electricity. 8vo. 2 pp. (*Phil. Mag. or Annals*, iii. 151, and *Quarterly Journal*, 1828, xxxv. 161.) *London*, 1828

† Recherches sur une propriété particulière des conducteurs métalliques de l'électricité. (Mém. lu 22 Juin, 1826.) (*Geneva Soc. de Phys.* iii. part ii.) *Genève*, 1826

Sur les effets calorifiques de la pile. 8vo. (*Bibl. Univ.* xl. 1829.) *Genève*, 1829

† Action of Sulphuric Acid upon Zinc, and causes producing Electricity. (Letter from De la Rive to the French Academy, read by Arago.) 8vo. 4 pp. (*Phil. Mag. or Annals*, viii. 298.) *London*, 1830

† Esquisse historique des principales découvertes faites dans l'électricité depuis quelques années. 8vo. 239 pp. (*Bibliothèque Univ. de Genève*, 1833.) *Genève*, 1833

(*Note.—This "coup d'œil" . . is in his Archives de l'Electricité*, tom. i. p. 5, 1841.) (*Faraday's copy.*)

De l'électricité développée par le frottement des métaux. 8vo. (*Bibl. Univ.* lix. 1835.) *Genève*, 1835

† Recherches sur la cause de l'Electricité voltaïque. 4to. 174 pp. 1 plate (in 2nd part). In 3 parts. (*Extrait des Mém. de la Société de Physique de Genève.*)
1st part read Nov. 20, 1828, printed in tom. iv. p. 285, 1828.
2nd part read , printed in tom. vi. p. 149, 1833.
3rd part read April 16, 1835, printed in tom. vii. p. 457, 1836.
The 3rd part read also in *Acad. de Paris*, July 22, 1834.
The volume (3 parts) seems to be a reprint (with date 1836) and with *variations* in 3 parts. *Genève*, 1836

**La Rive, Auguste Arthur De.**—*continued.*

De l'Electricité développée par la désoxydation de certaines substances minérales. 8vo. (*Bibl. Univ.* Nouv. Sér. i. 1836.) *Genève*, 1836

† Researches into the cause of Voltaic Electricity. 8vo. 26 pp. *London*, 1837

† De l'influence qu'exerce la chaleur sur la facilité que le courant électrique possède à passer d'un liquide dans un métal. 8vo. 8 pp. (*Tiré de la Bibliothèque Universelle de Genève*, Février, 1837.) *Geneva*, 1837

† Des mouvements vibratoires que déterminent dans les corps, et essentiellement dans le fer, la transmission des courants électriques et leur action extérieure. 8vo. 35 pp. (*Extrait des Archives de l'Electricité*, No. 17. *Supplément à la Bibliothèque Universelle de Genève.*) *Genève*

† Recherches sur les propriétés des courants magnéto-électriques. 4to. 56 pp. (*Mém. lu à la Société de Physique de Genève, le* 16 *Avril*, 1837.) *Genève*, 1839

† Notice sur un procédé électro-chimique ayant pour objet de dorer l'argent et le laiton. 8vo. 19 pp. (*Bibl. Univ.* Fév. 1840.) (*Arago's copy.*) *Genève*, 1840

(*Note.—No allusion is made to Brugnatelli, the real inventor.*—F.R.)

† Mémoire sur quelques phénomènes chimiques qui se manifestent sous l'action des courants électriques développés par Induction. Lu en deux fois—le 4 Septembre, 1838, et le 17 Mai, 1840. 4to. 74 pp. (*Geneva Soc. de Phys.* ix. pt. i. p. 161.) *Genève*, 1841

† Archives de l'Electricité. Supplément à la Bibliothèque Universelle de Genève. 5 vols. 8vo. Plates. *Genève*, 1841—45

† Coup d'œil sur l'état actuel de nos connaissances en électricité. 8vo. 30 pp. (*Extrait des Archives d'Electricité*, tom. i.) *Genève*, 1841

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(*Vide* also Le Comus and Ledru.)

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(*Gralath makes a very slight reference* (*at p.* 312) *to a gold-leaf*
*by Le Cat, and to his opinion relative to the motions of t*
*contained in this Memoir. Mangin, in his* (*anonymous*) *E*
*l'Electricité* (vol. i. 84), *refers to a Memoir of Le Cat, read*
1746, *at Rouen, containing the celebrated gold-leaf experiment,*
*full account of it, &c.*) *Lon*

Dissertation sur le principe de l'action des muscles. 4to. *Be*

A posthumous Memoir of his on Spontaneous Animal Combustion, wa
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*Gle. de Med. Prat.* iv. 316.) *Ver*

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*Hamburg and Lei*

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*Mi*

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(*Note.—Another Henri Lecocq born in* 1810.)

Observations at Clermont, &c. on the Puy-de-Dome in July 28, 18
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† Lettera del Santi Linari al Giulij. (Dated October 19, 1838.) 4to. 1 p. (*Fusinieri Ann. Scient. Reg. Lomb.-Veneto*, ix. 200, 1839.) *Venezia*, 1839

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† On the curative treatment of Paralysis and Neuralgia, and other affections of the nervous system with the aid of Galvanism. 2nd edition. *London*

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**Locke, John.** *Born February* 29, 1792, *at Lempster, New Hampshire; died July* 10, 1856, *at Cincinnati.*

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(*Note.—There is a quarto edition, Milano, and also an octavo, uniform with Tiraboschi.*)

† **Lombardy I. R. Institution.** Giornale dell' I. R. Istituto Lombardo di Scienze, Lettere ed Arti, e Biblioteca Italiana, compilata da varii dotti nazionali' e stranieri. 16 vols. 8vo. (*Electrical Articles in Library.*) *Milano*, 1841-47

(*Note.—The "Giornale dell' I. R. Istituto Lombardo e Biblioteca Italiana"* (*in* 8vo.) *is the* suite *of the journal the "Biblioteca Italiana," which appeared from* 1816 *to* 1840 *inclusive. In the following year this became an organ of the Lombardy Institution, and modified its title in the above manner. It was thus published from* 1841 *to* 1847 *inclusive* (*still in* 8vo.) 16 vols. *In a part of this period, i.e. in* 1843 *and* 1845, *were published* 2 vols. *of the "Memorie dell' Istituto Lombardo" in* 4to. *In* 1847 *the Giornale began to appear alone, under the title "Giornale dell' I. R. Istituto Lombardo e Biblioteca Italiana," in* 4to. *This was discontinued in* 1848 *and* 1849, *but its publication was renewed from* 1850 *until* 1856 *inclusive. At about this last time it changed its title, or rather ceased to exist, and in* 1858 *began a new journal, entitled "Atti dell' I. R. Istituto Lombardo,' in* 4to. *In* 1852 *was published the* 3rd *volume of the "Memorie," and in* 1861 *the* 8*th volume. It continued after* 1861.)

Memorie dell' I. R. Istituto Lombardo di Scienze Lettere ed Arti. Vol. i. 1843; ii. 1845; iii. 1852; iv. 1854; v. 1856; vi. 1856; vii. 1858 and 1859; viii. 1859-60-61. 4to. (*This volume is also called* vol. ii *della Serie* ii.) *Milano*, 1843

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**Longobardi,** Niccolo. Jesuit; one of the Missionaries to China. *Born about* 1565; *died December* 11, 1655, *at Pekin.* (*Poggendorff*, i. 1494.)

† **Longridge,** J. A. On submerging Telegraphic Cables. 8vo. (*Proceedings of the Institution of Civil Engineers*, xvii.) *London*, 1858

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† On certain Storms in Europe and America, December, 1836. 4to. 26 pp. 13 maps (coloured). (*Smithsonian Contributions to Knowledge.*) *Washington*, 1860

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† **Lor**, De. (*Vide* Beccaria, Lettre à Nollet. Traduit par De Lor.)

Where were his Experiments with Lightning Conductors first published, and when?

*Note.—Nollet* (p. 12) *quotes "la Gazette du 27 Mai," in which it is said that le Sieur Bouguer rendered to the Académie Royale an account of this Experiment the 19th et tout de suite. Nollet adds: "La Compagnie reçut la date et la narration du fait, et les fit déposer dans ses Registres pour en faire honneur . . à Messrs. Dalibard et Delor." Mangin, Hist.* i. 187, *refers to the account in the "Gazette de France" du 27 Mai*, 1752, *"que nous relaterons ci-après."*

**Lorberg.** Zur Theorie der Bewegung der Elek. in Leitern. *Ruhrort* (?)

**Lorenz**, Otto. "The Catalogue of all French publications from 1840 to 1865, compiled by the German bookseller Lorenz, settled in Paris, is at last completed, having been interrupted by the involuntary flight of the editor from Paris, about a year ago. In the absence of any comprehensive catalogue since Quérard, which reaches only to 1839, this is a great boon to librarians, booksellers, and persons who desire to refer to the publications of French authors. The arrangement is alphabetical, under the name of the author; in anonymous works, under the first substantive of the title. Each author's list is preceded by a short biographical notice." (*From Athenæum*, Sept. 9, 1871.) 1871

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† **Lorenzini**, S. Osservazioni intorno alle Torpedini. 4to. 136 pp. 5 plates. *Firenze*, 1678

† **Lorenzo de Medici.** Portrait. Caronni dis. et incis.

**Lorgna**, Antonio Maria. *Born* 1736, *at Verona; died June* 28, 1796, *at Verona.*

† Sopra una Fulminazione di terra. Lettera al Volta. (Verona, 15 Mag. 1781.) 4to. 7 pp. (*Opus. Scelti*, iv. 235.) *Milano*, 1781

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(*The above two articles are bound together with an Address to some friends* (*or Dedication*), *and signed Gaetano dott. Sorgata e Jacopo Prof. Cocconi* (*of* 1 *page*). *The whole forms a brochure, without any proper title-page. It is said in the Dedication that the two letters were found* (*in MS.*) *in the Biblioteca del Seminario.*)

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† A concise Essay on Magnetism; with an account of the declination and inclination of the Magnetic Needle. . . 4to. 34 pp. Portrait, and 6 other plates. *London*, 1795

**Löscher**, M. G. De phænomeno septentrionali luminoso. *Viteb.* 1721

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† **Loschmidt**, J. Ableitung des Potentiales bewegter elektrischer Massen aus dem Potentiale für den Ruhezustand. 8vo. 8 pp. (*Sitzb. d. K. Akad. Wissensch.* ii. Abth. Juli Heft, Jahg. 1868. lviii.) *Wien*, 1868

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**Lottin**, Victor Charles. *Born October* 26, 1795, *at Paris; died February* 18, 1858, *at Paris.*

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Über d. Zweckmässigste Combination galvan. Ketten. (*Schlomich u. Witzschel, Journ. f. Math. u. Phys.* ii. 1857.) 1857

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† Tentamina experimentorum ad compassum perficiendum, &c. 4to. 130 pp. 8 plates. *Hafniæ*, 1773

(*Vide* also two following entries.)

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**Louyet**, Paulin Laurent Charles Evalery. *Born January* 28, 1818, *at Mons; died May* 3, 1850, *at Ixelles, near Brussels.*

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† Recherches expérimentales sur le zincage voltaïque du fer. 8vo. 7 pp. (*Acad. Rle. de Belgique*, tom. xiii. No. 3 *des Bulletins.*) (*Arago's copy.*)

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† **Love**, G. H. Essai sur l'identité des Agents qui produisent le Son, la Chaleur, la Lumière, l'Electricité, &c. 8vo. 296 pp. *Paris*, 1861

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† Sir J. Newton's Æther realised, or the 2nd part of the subtil medium proved. 8vo. 77 pp. *London*, **1759**

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† Philosophical Essays . . in 3 parts. . . To which is subjoined, by way of Appendix, a clear account of the Variation of the Needle. 8vo. 525 pp. 4 plates. *Worcester*, **1766**

(*The Appendix is entitled "A brief theory of the North Magnetic Pole and the Mariners' Compass-Needle."*)

† The Electrical Philosopher. . . To which is subjoined a Postscript, containing strictures upon the uncandid animadversions of the Monthly Reviewers. 8vo. 290 pp. 2 plates. *Worcester*, **1774**

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† **Ludewig, J.** Der Bau von Telegraphenlinien mit besonderer Berücksichtigung der Vorschiften der Telegraphen-Verwaltung des Norddeutschen Bundes, so wie der neuen Maasordnung. Für Telegraphen-Beamte und Techniker Zweite vermehrte und umgearbeitete Auflage. 8vo. 327 pp. *Leipzig*, 1870

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**Ludolff, Christian Friedrich.** *Born March 5, 1707, at Berlin; died October 22, 1763, at Berlin.*

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† **Lullin, A.** Dissertatio physica de Electricitate quam . . præside H. B. de Saussure . . publice tueri conabitur Ams. Lullin, Sept. 26. 8vo. 55 pp. *Genevæ*, 1776

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**Lütke,** Friedrich Benjamin von. *Born September* 17, 1797 (*A. St.*), *at St. Petersburg.*

† **Lütke,** F. B., and **Lenz,** E. Beobachtungen des Inclination und Intensität der Magnetnadel angestellt auf einer Reise um die Welt auf den Sloop Seniawin in den Jahren 1826-7-8-9 vom Capt. F. B. Lütke berechnet und bearbeitet von E. Lenz. (Gelesen den 12 October, 1834.) 4to. 36 pp. (*Bullet. Scient. Acad. Petersb.* i. 1836.) *Petersburg*, 1836

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† Unterricht vom Blitze u. v. Blitz u. Wetter Ableitern. 8vo. 1 plate. (*From Kuhn of* 1866, p. 279.) *Nuremberg*, 1783

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† Experiments and Observations made with a view to point out the errors of the present received theory of Electricity. 4to. 280 pp. 2 plates. *London*, 1780

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† Remarks on the leading proofs offered in favour of the Franklinean System of Electricity. 8vo. Plate. *London*, 1791

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**Macaire,** Isaac François. *Born July* 21, 1796, *at Geneva.*

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† **Marcartney,** J. Observations upon Luminous Animals. 8vo. 12 pp and 14 pp. 2 plates. (*Phil. Mag.* xxxvii. pp. 24 and 93. *Originally in Phil. Trans. for* 1810, pt. ii.) *London*, 1811

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† **Macdonald.** On the North-west Magnetic Pole. 8vo. 6 pp. (*Phil. Mag.* lvii. 88). *London*, 1821

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† **Macfait,** E. Observations on Thunder and Electricity. 8vo. (*Essays and Observations, Phys. and Liter.* i. 189.) *Edinburgh*, 1754

† **McGregor,** W. Questions on Magnetism, Electricity, and practical Telegraphy, for the use of students. 12mo. 90 pp. *London*, 1868

† **Macintosh,** C. Electricity produced by separation of parts. 8vo. 1 page (*Edinb. Phil. Journ.* x. 185.) *Edinburgh*, 1824

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† **Mackrell, Gann, and Pollock.** On the action upon the Galvanometer by arrangement of coloured liquids in a U tube. 8vo. 50 pp. *London*, 1850

† **Maclear,** T. On a Luminous Arch seen at Biggleswade, on the 23rd of March. 8vo. 3 pp. (*Phil. Mag. or Annals*, v. 373.) *London*, 1829

**McRea.** (*Vide* Turnbull and McRea.)

**Macusson** (or D. F. A. M. R. D. C.) Dissertation sur le Feu boréal. 12mo. 111 pp. 1733

† **Madison**, James. Experiments on Magnetism communicated in a letter to Thomas Jefferson. (Read May 4, 1798.) 4to. 6 pp. (*Trans. Amer. Phil. Soc.*, old series, vol. iv. p. 323.) *Philadelphia*, 1799

**Madras Observatory.** (*Vide* Taylor, Worster and Jacob.)

(*Vide* Goldingham and Taylor.)

**Madrid Acad.** Memorias de la Real Acad. de Ciencias. 4to. 9 plates. *Madrid*, 1850-51

**Madrid.** (*Vide* also Academia de Madrid.)

**Maffei**, Scipione de. *Born June* 1, 1675, *at Verona; died February* 11, 1755, *at Verona.*

† Della formazione de' Fulmini Trattato del Sig. Mar. S. Maffei raccolta di varie sue lettere, in alcune delle quali si tratta anche degli Insetti rigeneran-tisi, e de' Pesci di mare sui monti, e più a lungo dell' Elettricità. (Edited by Tumermanni, 15 Letters.) 4to. 189 pp. *Verona*, 1747

(*Note.—This is said by Grimelli* (*Storia*) *to contain all the anterior letters on Lightning published by him, i.e. all before* 1746, *the date of the censorship.*)

Tre Lettere. 4to. *Verona*, 1748

Godanken von dem Blitz, aus dem Ital. übers. 8vo. *Frankf. u. Lipz.* 1758

A letter without title-page, date, or place. "Al suo carissimo . . amico il P. D. Ippolito Bevilaqua." 4to. 8 pp. (*It concerns the case of La Signora Contessa Cornelia Baudi Cesena, &c.*)

Opuscoli letterari, con alcune sue lettere edite ed inedite, con Ritratto. 8vo. *Venezia*, 1829

Elogio di Pindemonte. *Verona*

Portrait. P. Anderloni dis. ed. inc.

† **Maffioli** di Udine. On Lightning Conductors. (*Giornale d'Italia*, 25 Agosto, 1770.) 1770

**Magolotti**, Lorenzo. *Born December* 13, 1637, *at Rome; died March* 1, 1712, *at Florence.*

† Saggi di naturali Esperienze fatte nell' Accad. del Cimento. 1st edit. Fol. (*Vide Accad. del Cimento.*) *Firenze*, 1666

(*Note.—Libri Sale Cat.* p. 480, *says this edition was printed for private distribution and is rare, it having been replaced by a new one dated* 1667.)

† Saggi . . Accad. del Cimento. 2nd edit. Fol. *Firenze*, 1691

Lettere scientifiche, ed erudite. Portrait. 4to. *Firenze*, 1721

† Saggi di naturali esperienze fatte nell' Accad. del Cimento descritte dal Conte Lorenzo Magalotti. In questa Edizione si aggiunge la sua vita scritta dal Sig. D. M. Manni. 8vo. 192 pp. 28 plates. *Venezia*, 1761

Saggi . . Accad. del Cimento. 2 vols. 8vo. *Milano, n. d.*

(*Note.—This belongs to an Edizione delle opere classiche Italiane, Divisia Delle opere di Lorenzo Magalotti.*)

(For Life *vide* Accademia del Cimento.)

**Magarotto**, A. Assertiones tres ex physica publice propugnandæ. 12mo. 94 pp. *Patavii*, 1791

(*Note.—The* 1*st is "Ductores electrici ad ædificia a fulminibus tutanda plurimum conferunt, præsertim si acuminati sint." The* 2*nd is "Vis electricitatis est potissima terræmotus causa. The* 3*rd has no reference to Electricity.*)

† Franklini Theoria de electricitatis principio. 8vo. 158 pp. 2 plates. *Patavii*, 1805

† Discorso sull' origine della Gragnuola con alcune riflessioni sulli Paragrandini. 8vo. 35 pp. *Vicenza*, 1825

**Magazin der neuesten Erfindungen.** Von Poppe, Kuhn, und Baumgartner. Neu Folge.

**Magazin für Naturvidens Kaberne.** Udgivet of Professors Lunth, Hansteen, og Maschmann. *Christiania*, 1823

(*Vide* Muncke in Gehler's Wörterbuch, vii. 566.)

Magazin für d. Neueste aus. d. Physik u. Naturgeschichte, &c. 8vo. 12 vols. *Gotha*, 1781-99

(*Vide* Lichtenberg and Voight.)

† **Magellan.** Est. d'una lettera sui conduttori. (*From Rozier*, Juin, 1782.) 4to. 3 pp. (*Opusc. Scelti*, v. 304.) *Milano*, 1782

† Articolo di lettera al Landriani intorno alla elettricità, &c. 4to. 3 pp. 1 plate. (*Translation by Arnocelli.*) (*Opusc. Scelti*, vi. 296.) *Milano*, 1783

(*Note.—Perforation of a glass tube by Electricity, and other experiments.*)

In his edition of Cronstedt's Mineralogy, On a Tourmalin in M. Steigliz's Cabinet at Leipzig.

† **Maggi,** P. Saggio d'una teoria matematica delle induzioni elettrodinamiche in seguito alla teoria fisica degli stessi fenomeni pubblicata nel giornale di Firenze lo scorso ottobre dal . . Nobili. Letto dal . Maggi il 1 Mag. alla conversazione . presso il . G. G. Orti. 1833. 8vo. 32 pp. and 26 pp. *Verona*, 1833

Sopra una nuova proprietà del ferro dolce magnetizzato. Memoria letta . . 17 Feb. 1850 all' Accad. di Agricolt. . di Verona. 8vo. 15 pp. *Verona, n.d.*

Sopra un probabile uso geognostico del filo Voltaico. Nota del Dott. P. Maggi letta . . 18 Aprile, 1850, all' Acad. di Agricolt. . di Verona. 8vo. 9 pp. *Verona, n.d.*

† **Maggiotto,** F. Lettera di . . al Prof. G. Toaldo sopra una nuova costruzione di Macchina-Elettrica. (Data) Venezia 15 Febbrajo, 1781.) 8vo. 12 pp. 1 pl. *Venezia*, 1781

† Saggio sopra l'attività della Macchina elettrica costrutta da lui ed alcuni riflessi intorno l'elett. fluido. 8vo. 28 pp. 1 plate. *Venezia*, 1781

† Considerazioni elettriche. 12mo. 20 pp.

† (1) Transunto di una Lettera al Toaldo sopra la costruzione, e gli effetti di una nuova Macchina Elettrica. 3 pp. *Venezia*, 1781

(2) Esperienze che provano l'attività della nuova Macchina elettrica. 3 pp.

(3) Considerazioni sopra il fluido elettrico. 7 pp. 4to. 13 pp. *Milano*, 1783

† Considerazioni elettriche. 4to. 9 pp. (*Opusc. Scelti.* v. 409.) *Milano*, 1782

**Magliozzi.** Notizie storiche intorno l'invenzione e l'uso della bussola, presso tutti i popoli antichi e moderni. 4to. *Napoli*, 1849

**Magnat.** De l'arrêt, à distance, des convois, en cas de rencontre prochaine.

**Magnus.** Fortführung v. Flüssigkeiten durch Electricität.

**Magnetofilo, Il.** Giornale della Società magnetica di Torino, pubblicato sotto la direzione di E. Allis. Anno i. vol. i. 8vo. 408 pp. *Torino*, 1855

**Magnier.** Nouveau manuel complet de télégraphie . par Ch. Walker . trad. de l'Anglais par D. Magnier. Suivi d'une Appendice. 18mo. 194 pp. 2 plates. *Paris*, 1851

**Magnin,** Arthur. Le feu du ciel, histoire de l'électricité et de ses principales applications. Idées des anciens, premières observations, machine électrique, bouteille de Leide, paratonnerre, &c. 3e édition. 8vo. 240 pp. *Tours*, 1866

**Magnus,** Heinrich Gustav. *Born May* 2, 1802, *at Berlin.*

† De vi ancorse in electro-magnetes et chalybo-magnetes. 8vo. 28 pp. *Berolini*, 1836

† Über thermo-electrische Ströme. Gelesen 20 März, 1851. 4to. 1 plate. (*Berlin Acad.* "*Phys. Kl.* 1851.") *Berlin*, 1851

† Über directe und undirecte Zersetzung durch den galvanischen Strom. 8vo. 28 pp. (*Pogg. Ann.* civ. 1858.) *Leipzig*, 1858

Seven or more Articles in Pogg. Ann. vol. xxviii. 1833 to vol. civ. 1858.

† **Magrini,** Ales. Apparato di rotazione continua fondata sulle azioni attrattive e ripulsive delle correnti di un solenoide su di una barra magnetica, la quale possa muoversi soltanto parallelamente a se stessa. (Letta 9 Agosto, 1860.) 4to. 6 pp. 1 plate. *Milano*, 1860

Telegrafia elettrica di Gavarret, &c. (*Vide* Gavarret.)

† **Magrini,** L. Sopra l'elettro-magnetismo e le recenti scoperte del prof. Ab. Salv. Dal Negro. 8vo. 44 pp. 2 plates. *Padova*, 1834

† Indagini circa l'azione chimica delle calamite temporarie e risultamenti esperimentali che manifestano la proprietà dei ferri prismatici di magnetizzarsi più che i cilindrici in parità di massa. 4to. 8 pp. (*Mem. estratta dagli Ann. del Reg. Lomb.-Veneto* v. *Bimestre di Marzo e Aprile, Maggio e Guigno*, 1835.) *Padova*, 1835

† Nuovo motore elettro-magnetico. Invenzione di Luigi Magrini. . Memoria letta all' Imp. R. Accad. di Scienze . di Padova . . 15 Dec. 1835. 4to. 8 pp. 1 plate. *Padova*, 1836

† Nuovo metodo per determinare la legge delle attrazioni e ripulsioni magnetiche secondo le distanze. Singolari fenomeni osservati negli aghi di acciajo magnetici e non magnetici in corso di un temporale. Sperienze che si oppongono alla ipotesi di Oersted circa la causa della deviazione dell' ago magnetico per mezzo della corrente elettrica. Memoria letta, e relativi esperimenti eseguiti . . 24 Maggio, 1835, all' Imp. R. Accad. di Scienze . . di Padova da L. Magrini. 4to. 14 pp. 1 plate. *Padova*, 1836

† Nuovo metodo per rendere costante l'efficacia d'un elemento galvanico. Estratto da una Memoria letta . 8 Maggio, 1837, all' Ateneo di Venezia di L. Magrini. 4to. 3 pp. 1 plate. *Padova*, 1837

† Telegrafo elettro-magnetico pratica e a grande distanze immaginato ed eseguito da L. Magrini. 8vo. 86 pp. 4 plates. *Venezia*, 1838

† Intorno la influenza della lunghezza dei circuiti sulla intensità delle correnti Voltiani. Estratto della Memoria letta . 18 Decem. 1837 nel veneto Ateneo relativa al nuovo Telegrafo elettro-magnetico di Luigi Magrini. 4to. 11 pp. *Padova*, 1838

† Caso recentissimo di una stitichezza straordinaria vinta coll'azione del Galvanismo per opera di L. Magrini. 4to. 5 pp. *Venezia*, 1839

Relazione di alcune sue esperienze elettro-magnetiche eseguite colla limatura di ferro, 31 Luglio, 1857 (dal Namias). 4to. *Venezia*, 1839

† Sulla trasmissione di correnti voltaiche disuguali e contrarie da uno stesso conduttore. Estratto. 8vo. 2 pp. (*Giorn. I. R. Ist. Lomb.* ix. 28). *Milano*, 1844

† Three Notices of Declarations, &c. concerning (1) "correnti elettrichi," (2) Nuovi lavori sperimentali sull' elettricità tellurica Parte prima, and (3) Idem Parte seconda. (*Giorn. I. R. Ist. Lomb.* x. 1845, pp. 34, 35, 37.) *Milano*, 1844

† Sulla Elettromozione tellurica. Sunto di nuovi lavori esperimentali eseguiti dal Prof. L. Magrini in occasione del sesto congresso scientifico, mediante il grande apparato fatto costruire dalla città di Milano. 8vo. 69 pp. (*Estr. dal* vol. vii. *del Politecnico di Milano.*) *Milano*, 1845

† Expériences sur la force électro-motrice tellurique exécutées . avec l'appareil que la Ville de Milan fit construire. 4to. 8 pp. *Paris*, 1845

† Esperienze sulla forza elettro-motrice e sulla conduttività tellurica . (*Cenni estratti da un lavoro lungo di cui si sta preparando la pubblicazione.*) 8vo. 31 pp. *Milano*, 1845

† Osservazioni intorno all' esperienze sul Telegrafo elettrico eseguite sulla linea da Parigi a Rouen. 8vo. 2 pp. *Milano*, 1846

† Esperienze dell' elettricità-tellurica di Magrini. 1 p.

**Magrini, L.**—*continued.*

Intorno le sperienze telluro-elettrichi di Magrini. 2 pp. 8vo. (*Giorn. I. R. Istit. Lomb.* xiv. 5, 6.) *Milano*, 1846

† Sulla tromba che devastò l'I. R. Parco di Monza il 13 Marzo 1846. 8vo. 26 pp. 5 plates. (*Giorn. I. R. Istit. Lomb.* xv. 206.) *Milano*, 1846

† Risposta alle considerazioni di G. Belli sulle Trombe di terra e di mare. 8vo. 9 pp. (*Giorn. I. R. Istit. Lombardo*, xvi. 63.) *Milano*, 1847

† Replica alle considerazioni sulle Trombe di terra e di mare e ad una sperienza per imitarle di G. Belli. 8vo. 8 pp. (*Giorn. I. R. Istit. Lombardo*, xvi. 316.) *Milano*, 1847

† Sulla Tromba che devastò il territorio di Orzinovi il 26 Luglio, 1847. 4to. 8 pp. (*Giorn. dell I. R. Istit. Lomb.* Nuova Serie, i. 97.) *Milano*, 1847

† Communications of several kinds were made by him to the I. R. Institute, and shortly mentioned by the Secretary in the year 1847. 1847

† Osservazione, &c. sopra un fenomeno avvertito dal Sig. Dubois Reymond. 4to. 6 pp. (*Giorn. dell I. R. Ist. Lomb.* Nuova Serie, ii. 41.) *Milano*, 1850

† Sopra un modo particolare di polarizzazione dei coibenti, svelato dai fenomeni dell' elettricità vindici. (Letta 28 Gennajo, 1851.) 4to. 9 pp. (*Giornale del I. R. Istit. Lombardo*, tom. ii. Nuova Serie, p. 291.) *Milano*, 1851

† Ricerche sulla natura del principio elettrico; ossia sperienze tendenti a provare che il principio delle vibrazioni può essere applicato anche ai fenomeni elettrici. 4to. 37 pp. 4 plates. (*Giorn. dell' I. R. Istit. Lombardo*, Nuova Serie, tom. iii. p. 318.) *Milano*, 1852

† Nota sul Riassunto generale di telegrafia (Milano, 1854) comunicata a questo I. R. Istituto, 9 Marzo, 1854. 4to. 5 pp. (*Giorn. dell' I. R. Istit. Lombardo*, Nuova Serie, tom. v. p. 503.) *Milano*, 1844

† Sulla particolarità del legno di trasmittere una corrente elettrica più facilmente nel senso delle fibre che trasversalmente. Nota. 4to. 4 pp. (*Giorn. del I. R. Istit. Lomb.* Nuova Serie, vi. 187.) *Milano*, 1844

† Intorno i guasti cagionati dal Fulmine al Telegrafo elettrico nella notte dal 18 a 19 Maggio pp. sulla linea da Milano a Vercelli; e, nel giorno successivo, sulla linea da Milano a Brescia; e intorno al modo di premunirsi contro questa azione della elettricità atmosferica. 4to. 13 pp. 1 plate. (*Estratta dal Giorn. dell' I. R. Istit. Lomb.* tom. vi. fas. 31 and 32.) *Milano*, 1854

† Sugli effetti dell' arco Voltiano nell' olio di Trementina. (Letta 9 Nov. 1854.) 4to. 7 pp. (*Estratta dal Giorn. dell' I. R. Istit. Lomb.* tom. vi. fas. 54 and 55.) *Milano*, 1855

† Notizie storiche, considerazioni ed esperimenti sul quesito: possono in uno stesso filo coesistere due correnti contrarie, e trasmettersi simultaneamente due dispacci elettrici in senso opposto? (Letta 8 Feb. 1855.) 4to. 16 pp. (*Estratta dal Giorn. dell' I. R. Istit. Lomb.* tom. vii. fas. 37 and 38.) *Milano*, 1855

† Monografia delle principali Trombe terrestri osservate in Lombardia dopo il 1845, e considerazioni sui loro effetti e sulla loro origine. 8vo. 96 pp. 1 plate. (*Estr. dalla Rivista Ginnasiale*, an. 5, 1858.) *Milano*, 1858

† Sopra alcuni singolari effetti della scarica elettrica; e specialmente sul trasporto delle molecole del condensatore e dell' eccitatore. 4to. 1 p. (*Atti dell' I. R. Istit. Lomb.* i. 67.) *Milano*, 1858,

† Rivendicazione della scoperta di un fenomeno di polarità elettro-magnetica. 4to. 3 pp. (*Atti dell' I. R. Istit. Lomb.* i. 206.) *Milano*, 1858

† Sopra una proposta del Perani di scaricare le nubi dell' elettricità. 4to. 2 pp. (*Atti del I. R. Istit. Lomb.* i. 221.) *Milano*, 1858

† Sulla Procella che colpì la città e i contorni di Milano il 30 Luglio 1858.

† Sull' applicazione di palloni metallici da scaricare le nubi dall' elettricità.

† Sulla formazione della Grandine. 4to. 6 pp. (*Atti dell' Istit. Lomb.* i. 224-7.) *Milano*, 1858

**Magrini, L.**—*continued.*

Sulla scoperta di correnti elettriche continue, a circuito aperto, confermata dalle recenti sperienze di Wheatstone. 4to. 4 pp. (*Atti dell' I. R. Ist. Lomb.* i. 250.) *Milano*, 1858

Sulla scintilla elettrica ottenuta per l'influsso del magnetismo temporario mediante l'apparato di Ruhmkorff. 4to. 1 p. (*Atti dell' I. R. Istit. Lomb.* i. 269.) *Milano*, 1858

† Cenni sopra una nuova forma di pila Voltiana. 4to. 2 pp. (*Atti dell' I. R. Istit. Lomb.* i. 390.) *Milano*, 1858

(*Note.—The date of the volume is not the date of the article.*)

† Osservazioni sulla Grandine caduta a Milano il 25 Luglio 1859. 4to. 1 p. (*Atti dell' I. R. Istit. Lomb.* i. 399.) *Milano*, 1858

(*Note.—The date of the volume differs from the date of the Fascicolo containing the article.*)

† Sopra una macchina elettrica di speciale costruzione e sopra alcuni fenomeni per essa ottenuti. 4to. 16 pp. 3 plates. (*Letta nelle adunanze dell' Istituto Lombardo del 20 Nov. 1856, e del 5 Genn. 1858.*) (*Estratto Mem. dell' Istituto*, vol. vii. fasc. 4.) *Milano*, 1858

Metodo facile e economico di costruire Macchine elettriche molto potenti. Letta nell' Adunanza del 20 Nov. 1856. 4to. 7 pp. 3 plates. (*Mem. I. R. Istit. Lomb.* vii. 249.) *Milano*, 1859

Sopra alcuni effetti della scarica che danno indizo di trasporto delle molecole dei conduttori. Nota letta dell' Adunanza nel 5 Genn. 4to. 6 pp. (*Mem. I. R. Ist. Lomb.* vii. 257.) *Milano*, 1859

(*Note.—Although the volume is dated* 1859, *the Fas.* iv. *in which this and the preceding paper appears is dated* 1858. *These form a latter part of the Brochure presented Marz.* 23, 1861, *entitled* "*Sopra una Macchina elettrica speciale costruzione,*" *&c.* 16 pp. 3 plates.)

† Intorno ad alcuni fenomeni d'induzione elettro-magnetica ottenuti coll' apparato di Ruhmkorff. Nota letta 10 Maggio 1860. 4to. 4 pp. *Milano*, 1860

† Intorno un compito Osservatorio meteorologico proposto da Ales. Volta sino dal 1791. 4to. 6 pp. 1 plate. (*Atti dell' I. R. Istit. Lomb.* ii. 239.) *Milano*, 1860

† Sopra un metodo di togliere alle nubi maggiore copia di elettricità che coll, ordinario parafulmine. Nota letta 25 Agost. 1859. 4to. 3 pp. *Milano*, 1860

† Sulla priorità dell' osservazione che la presenza del ferro dolce in una spirale aumenta l'effetto della scintillazione, &c. 4to. 1 p. *Milano*, 1860

† Sui manoscritti, &c. di Volta. 4to. 1 p. (*Atti dell' I. R. Istit. Lomb.* ii. 102.) *Milano*, 1860

† Sopra un caso di polarizzazione del vetro. 4to. 1 p. (*Atti dell' I. R. Istit. Lomb.* ii. 102.) *Milano*, 1860

† Notizie biografiche e scientifiche su Alessandro Volta esposte dal Dr. L. Magrini. Lette in varie tornate del 1861 del R. Istituto Lombardo di Scienze, Lett. ed Arti. 4to. 53 pp. 1 plate. *Milano*, 1861

(*Note.—This Collection comprise the following Articles.* (1) *Sui manoscritti inediti di Volta communicazione fatta* . 28 *Giugno*, 1860, vol. ii. p. 234. (*of*) *Atti del R. Istit. Lomb.* (2) *Intorno un compito osservatorio meteorol. proposto da Volta. Comunic. fatta* 7 *Feb.* 1861, vol. ii. p. 239 (*of Id.*) (3) *Sugli strumenti meteorol.&c. Discorso inedito di Volta*, vol. ii. p. 246 (*of Id.*) *The two last articles may be considered as one.* (4) *Notizie biografiche e scientifiche su Volta desunte dai suoi Autografi recentemente rinvenuti, communicate* . 21 *Feb. e* 7 *Marzo*, 1861, vol. ii. p. 254 (*of Id.*)

Ragguaglio dei Lavori. Tornata 7 Feb. 1861.

(*Note.—He is said to have obtained interesting notices concerning a meteorological Observatory proposed by Volta in a* "*Carteggio*" *of Aug.* 1791, *given to the R. D. Magistrato, and now existing in the Archivi governativi di Milano.*)

**Magrini,** L.—*continued.*

Comunica alcune osservazioni sopra un fenomeno elettrico non ancora avvertito. 4to. (*Sparks of a new kind from an Electrical Machine.*) **1861**

† Sulla meteora che nella sera del 4 Marzo, 1861, colpiva la cattedrale di Milano; e sulla riforma de' suoi Parafulmini. Memoria. 4to. 11 p. *Milano,* **1861**

† Risultati di nuove sperienze elettro-magnetiche e diamagnetiche. Con avvertimento del Codazza. 8vo. 8 pp. (*Rendiconti del R. Istit. Lomb.* ii. 129.) *Milano,* **1865**

† **Mahmoud,** Effendi (Director of the Cairo Observatory). Observations et recherches sur l'intensité magnét. et sur les variations . . de 1829 à 1854. 8vo. 23 pp. (*Ext. du* tom. xxi. No 9, *des Bull. de l'Acad.*) *Bruxelles,* **1854**

† Mémoire sur l'état actuel des Lignes Isocliniques et Isodynamiques dans la Grande-Bretagne, la Hollande, la Belgique et la France. Presenté à . . l'Acad. Rl. de Belgique le 8 Nov. 1856. 4to. 47 pp. 1 plate. (*Ext. du* tom. xxix. *des Mém. Couronnés et Mém. des Savants Étrangers, Acad. Rl. de Belgique.*) *Bruxelles,* **1856**

**Mahndel.** Sur les pierres de foudre. 4to. (*Acad. des Inscrips.* xii. *Hist.* 163.) *Paris*

† **Mahne,** E. H. De magnetismo animali. 8vo. 68 pp. *Gandavi,* **1829**

**Mahon,** Charles Viscount. *Born August* 3, 1753, *at Geneva; died December* 15, 1816, *at Chevening, Kent.*

† Principles of Electricity, containing divers new Theorems and Experiments, together with an Analysis of the superior advantages of high and pointed Conductors. . 4to. 263 pp. 6 plates. *London,* **1779**

† Principes de l'Electricité . . trad. de l'Angl. par l'Abbé N. . . . . 8vo. 250 pp. 6 plates. *Londres,* **1781**

Grundsäte d. Elekt. a. d. Engbn. mit Anmerk. v. Saeger. 8vo. 6 plates. *Leipzig,* **1798**

† **Maille,** P. H. Nouvelle théorie des Hydrométéores suivie d'un mémoire sur l'Electricité atmosphérique et d'un autre sur la Pluviométrie. 8vo. 372 pp. 2 plates. *Paris,* **1853**

**Maimbray.** At Edinburgh electrified two Myrtle trees, during the whole month of October, 1746. (*From Priestley, Hist.* 4th edition, p. 137.)

**Main.** (*Vide* Herschell & Main.)

† **Main,** J. On the Phænomena of Waterspouts. 8vo. 3 pp. (*Phil. Mag.* or *Annals,* iii. 114.) *London,* **1828**

**Mainz Medicinischen Privatgesellschaft.** Galvanis. und. elekt. Versuche. 4to. 50 pp. *Frankfort,* **1829**

**Mairan,** Jean Jacques d'Ortous de. *Born November* 26, 1678, *at Béziers; died February* 20, 1771, *at Paris.*

† Dissertation sur la cause de la lumière des Phosphores et des Noctiluques: (qui a remporté le prix de l'Acad. Rle. . . de Bordeaux pour l'an. 1717). 12mo. 54 pp. *Bordeaux,* **1717**

Sur les effets de la chute du Tonnerre sur un arbre. 4to. (*Mém. Par.* 1724.) *Paris,* **1724**

Description de l'Aurore boréale du 26 Sept. 1726, observée au chateau de Breuillepont, village entre Pacy et Ivry, diocèse d'Evreux. 4to. (*Mém. de Paris,* an. 1726, *Hist.* p. 3, *Mém.* p. 198.) *Paris,* **1726**

Traité physique et historique de l'Aurore boréale. 4to. (*Mém. de Paris,* an. 1731, *Mém.* p. 1, an. 1732, *Hist.* p. 1.) *Paris* **1731**
(*Poggendorff* ii. 17, *says* 1731, 1732, 1747, *and* 1751.)

**Mairan,** Jean Jacques d'Ortous de.—*continued.*

Observations de quelques aurores boréales, qui ont paru cet automne 1731 à Breuillepont en Normandie, diocèse d'Evreux. 4to. (*Mém. de Paris*, an. 1731, p. 379.) *Paris*, 1731

Journal d'observations des aurores boréales qui ont été vues à Paris ou aux environs, dans le cours des années 1732 et 1733. Avec plusieures observations de la lumière zodiacale dans les mêmes années. 4to. (*Mém. de Paris*, an. 1733, *Hist.* p. 23, *Mém.* 477.) (*From Young*, p. 489.) *Paris*, 1733

Traité de l'Aurore boréale. 4to. *Paris*, 1733

Journal d'observations des aurores boréales, qui ont été vues à Paris ou aux environs, à Utrecht, et à Pétersbourg, dans le cours de l'année 1734; avec quelques observations de la lumière zodiacale. 4to. (*Mém. de Paris*, an. 1734, *Mém.* p. 567.) *Paris*, 1734

Traité . . . de l'Aurore boréale suite aux Mém. de l'Acad. Royale des Sciences, an. 1731. 12mo. *Amsterdam*, 1735

Système de L. Euler sur la cause de la queue des comètes, de l'aurore boréale et de la lumière zodiacale. 4to. (*Mém. Paris*, 1747.) *Paris*, 1747

Eclaircissemens sur le traité physique et historique de l'Aurore boréale. 4to. (*Mém. de Paris*, an. 1747, *Hist.* p. 32, *Mém.* p. 363.) *Paris*, 1747

Précis de la suite des Eclaircissmens du traité de l'Aurore boréale. 4to. (*Mém. de Paris*, an. 1751, *Hist.* p. 40.) *Paris*, 1751

† Traité de l'Aurore boréale revue et augmenté. 2e. Ed. 4to. (*First printed in Acad. de Paris*, 1731.) *Paris*, 1754

† **Maisiat,** M. Mém. sur quelques changements faits à la Boussole et au rapporteur, suivi d'un nouv. instrument, nommé grammomètre. 8vo. 178 pp. 8 plates. *Paris*, 1818

**Maistre,** X. (Comte de). Sur la cause qui fait surnager une aiguille d'acier sur la surface de l'eau. 4to. (*Mém. d. Turin*, série ii. 1841.) *Torino*, 1841

**Majocchi,** Giovanni Alessandro. *Born at Cremona; died October 27, 1854, at Turin.* (*Poggendorff*, i. 20.)

Dei Paragrandini. Ragionamento. 8vo. 14 pp. Pirotta. (*Inserito nella Gazetta di Milano*, 12 e 13 Luglio, 1823.) *Milano*, 1823

Sull' incertezza della meteorologia sulla necessità e sul modo di stabilire i fatti per isciogliere il problema dell' utilità dei Paragrandini Ragionamento. 8vo. 40 pp. *Milano*, 1824

Istruzione teorica e pratica sui Parafulmini. 8vo. 114 pp. 1 plate. *Milano*, 1826

Elementi di fisica. 8vo. 352 pp. *Milano*, 1826

† Estratto d'una lettera del. 8vo. 5 pp. (*Bibl. Ital.* xliv. 300.) *Milano*, 1826

† Parafulmini (Articolo comunicato.) 8vo. 5 pp. (*Bibl. Ital.* xlix. 294.) *Milano*, 1828

† Sulle correnti magneto-elettriche e sulla calamita elettrica. Lettera scritta al . . Carlini. 8vo. 19 pp. 1 plate. (*Bibl. Ital.* lxvii. 184.) *Milano*, 1832

† Galvanometro universale a forza variabile. 4to. 7 pp. 1 plate. (*Ann. del Reg. Lomb.-Veneto*, viii. 61.) *Padova*, 1838

† Discorso detto . . il giorno 14 Luglio 1838 nel teatro di fisica dell' I. R. Liceo di Milano al terminare le lezioni dell' anno scolastico. 4to. 10 pp. (*Ann. del Reg. Lomb.-Veneto*, viii. 205.) *Padova*, 1838

† Annali di Fisica, Chimica, &c. The first 20 vols. have the title "Annali di Fisica, Chimica, e Matematiche; col Bullettino di Industria, &c. . . The vols. 21 to 28 are entitled "Annali di Fisica, Chimica, e Scienze accessorie coi Bullettini di Farmacia, &c." 28 vols. 8vo. With plates. *Milano*, 1841-47

**Majocchi,** Giovanni Alessandro—*continued.*

† Appendice agli "Elementi di Fisica," del D. Scinà. 8vo. 98 pp. 1 plate. *Milano,* 1842

† Delle condizioni necessarie alla produzione della corrente voltaica. Memoria Seconda. 8vo. 29 pp. (*In his Annali di Fisica* xx. 1845.) *Milano,* 1846

† Nuove sperienze e considerazioni sull' origine della corrente elettrica nella pila. Mem. terza. 8vo. 54 pp. (*In his Annali di Fisica,* tom. xxiv. 1846.) *Milano,* 1846

**Majocchi e Selmi.** Annali di Fisica Chimica e Scienze affini coi Bullettini di Farmacia e di Tecnologia. 8vo. *Torino,* 1850 *to* —

**Majus** (i.e. May), Heinrich. Disp. de tonitru. (*Pogg.* ii. 21.) *Marp.* 1673

Disp. de fulmine. 4to. (*Pogg.* ii. 21.) *Marp.* 1673

**Makerstoun Observations.** Observations in Magnetism and Meteorology made at Makerstoun, in Scotland, in the Observatory of General Brisbane, 1841—1846. 4to. 4 vols. (*Edinb. Phil. Trans.* xvii.—xix.) *Edinburgh,* 1845-49

**Mako** (von Kerek Gede), Paul. *Born July* 9, 1723, *at Jäss-Apath; died August* 19, 1793, *at Pesth.*

† Dissertatio physica de natura, et remediis Fulminum. 8vo. 100 pp. *Goritiæ,* 1773

† Physikal Abhandlung vom Nordlicht. 8vo. (*Auch in d. Beitr. zu verschiedn. wiss.* 8vo. *Wien* 1795.) *Wien,* 1773

Dissertationes physicæ. 8vo. *Wien,* 1781

**Mako, P. und Retzer.** Physikalische Abhandlung von den Eigenschaften des Donners, und den Mitteln wider das Einschlagen. Verfaszt von P. Mako und von J. E. von Retzer in das Deutsche übersetzt. 1st ed. 8vo. 125 pp. 1 plate (*i.e.* frontispiece). *Wien,* 1772

Physikalische Abhandlung von den Eigenschaften des Donners, u. d. Mitteln wider das Einschlagen. Verfaszt von P. Mako, und von J. E. Retzer, in das Deutsch. übersetzt. 2te. Aufl. (*Von Retzer aus d. latin Orig. das erst.* 1773 *erschien.*) *Wien,* 1775

**Malacarne,** Michele Vincenzo Maria. *Born September* 28, 1744, *at Saluzzo; died September* 4, 1816, *at Padua.*

Osservazioni meteorolog. fatte e scritte da G. V. Malacarne e comunicate alla Bibl. fis. d'Europa. 12mo. *Pavia,* 1789

Elogio di Ruggeri. 8vo. 1817

† An engraved Portrait of G. Asioli, inc. (*Also a small engraved Portrait from the above.*)

**Malfanti,** G. Le météore. *Genoa,* 1586

**Mallemans (Mallement) de Messanges,** C. *Born* 1653, *at Beaune, Bourgogne; died April* 17, 1723.

Nouveau système de l'Aiman, à M. l'Abbé Dangeau. 4to. 16 pp. 2 plates. (*From Lamont, Handb.* p. 439.) *Paris,* 1680

**Mallet-Favre,** Jacques André. *Born September . . .* 1740, *at Geneva; died January* 30, 1790, *at d'Avully, near Geneva.* (*Poggendorff,* ii. 28.)

Observationes variæ in Laponia ad Ponoi institutæ, a. 1769. 4to. (*Nov. Comm. Acad. Petr.* xiv. 1770. *Comprising De acus magneticæ declinatione Ponoi,* an. 1769, *observata.*) *Petropoli,* 1770

De acus magneticæ declinatione Ponoi an. 1769 observata. 4to. (*Novi Commentar. Acad. Petropol.* xiv. pt. ii. p. 33.) *Petropoli*

**Mallet.** (*Vide* Clement-Mallet.)

**Malzet.** (*Vide* Jacquet de Malzet.)

**Manchester Society.** Memoirs of the Literary and Philosophical Society of Manchester. 1 vol. 8vo. *London*, 1785

Memoirs of the Literary and Philosophical Society of Manchester. 5 vols. 8vo. (*Continued.*) *Warrington*, 1789-96

† **Manent.** Découverte . . . circulation de l'électro-magnétisme, le principe des sciences, etc. 8vo. 125 pp. *St. Gaudens*, 1857

**Mangin.** *Born at Langres; died about* 1772.

Question nouvelle . . sur l'électricité, proposée . . par . . l'Acad. de Dijon et traitée par . . de Mangin. *Paris*, 1749

† Histoire générale et particulière de l'Electricité. (Anon.) 3 vols. 12mo. 1 plate. (*Comprises, in* vol. ii. p. 13, *his Question Nouvelle. See above.*) 1752

**Manheim Acad. Theodoro-Palatina.** Historia et Commentationes. 11 vols.? 4to. *Manhemii*, 1766

**Manheim Societ. Meteorolog. Palat.** Ephemerides Societatis meteorologicæ Palatinæ. 10 vols. 4to. *Manheim*, 1781-92

**Mann,** Theod. Augustin. *Born June* 22, 1735 (*N. St.*), *in Yorkshire; died February* 23, 1809, *at Prague.*

* Sur les Marées aériennes, &c. 8vo. *Bruxelles*, 1792

**Manni.** Life of Magalotti.

(*Vide* Accademia del Cimento.)

**Manteufel,** Count. Used "vases et gobelets de porcelaine de Saxe et du Japon" mounted as usual for elect. machines, which were very effective. Some time before 1752. (*From Mangin, Hist.* i. 31).

**Mantua Acad.** Memorie della Reale Accademia di Scienze, Belle-lettere ed Arti di Mantova. 4to. *Mantova*, 1795

**Manuzio.** Degli Elementi e di molti loro effetti. 4to. *Venezia*, 1557

**Manzini,** Carlo Antonio. Della sicura incertezza nella declinazione dell'ago magnetico dal meridiano. 4to. *Bonon*, 1650

Sulla declinatione dell' ago magnetico dal meridiano, etc. 4to. *Bologna*, 1650

**Maraschini,** G. B. G. *Born* 1774, *at Scio; died September* 26, 1825.

Sulle combustioni spontanee del Corpo umano. 8vo. 37 pp. *Vicenza*, 1822

**Marat,** Jean Paul. *Born May* 24, 1743, *at Boudry, Cant. Neufchatel; died July* 13, 1793, *at Paris.* (*Assassinated by Charlotte Corday.*)

† Découvertes sur le feu l'électricité et la lumière. 2nd ed. 8vo. 38 pp. *Paris*, 1779

Recherches physiques sur le feu. 8vo. *Paris*, 1780

† Recherches physiques sur l'électricité. 8vo. 461 pp. 5 plates. *Paris*, 1782

† Entdeckungen über d. Licht. durch eine Reihe neuer Versuche bestätigt aus el Franzos von Chr. E. Weigel mit Anmerk. 8vo. xiv. and 166 pp. *Leipzig*, 1783

† Mémoire de l'électricité médicale. 8vo. 111 pp. *Paris*, 1784

Phys. Forschungen über das Feuer, Übersetzt von Weigel. (*Fm. Wiegel*, p. 444.)

† Physische Untersuchungen über Electricität, a. d. Franz. 1782, mit Anmerkungen übersetzt von C. F. Weigel. 5 Kupf. 8vo. 660 pp. *Leipzig*, 1784

Observ. de M. l'Amateur Avec à M. l'Abbé Sans. Elect. Med. 8vo. 33 pp. *Paris*, 1785

Œuvres de Marat. 8vo. 1788

(*Note.—A title-page seems to have been printed, for affixing to a collection of his works previously published.*)

**Maravigna.** Du Galvanisme et de l'Electricité développée, etc. *Catania*, 1825

**Marcel.** On fragments of, and powdered Magnets. (*From Van Swinden.*)

† **Marcel,** A. An abstract of a letter, written in Dutch, to the illustrious Royal Society of London by Marcel, A. Communicated by Desaguliers, J. T. 4to. 5 pp. (*Phil. Trans.* xxxvii. 294.) *London*, 1731-32
(*Note.—Communication of Magnetism to Iron and Steel without the help of any Loadstone.*)

**Marcet.** (*Vide* La Rive De, and Marcet.)

**Marchetti,** Giov. De phosphoris quibusdam, ac præsertim de bononiensi. 4to. (*Comment. Bonon.* vii. 1794.) *Bonon*, 1791

**Marchisio,** A. Sopra un nuovo liquido indoratore. Lettera . . al Sig. Prof. S. Marianini. (*Indicatore Economico*, 21 *Giugno* 1844, *Modena.*) *Modena*, 1844

**Marcilla,** A. G. de. Tratado de telegrafia eléctrica. 4to. Plates. *Madrid*, 1851

† **Marco,** Felice. Principii della teoria meccanica dell' elettricità e del magnetismo cioè la costituzione della materia ponderabile svelata. 8vo. 230 pp. *Torino*, 1867

**Marcorelle.** Observation de la déclinaison de l'aiguille aimantée faite à Toulouse, le 27 Septembre, 1750. 4to. (*Mém. de Mathém. et de Phys.* ii. 612.) *Paris*

Description d'une trombe de terre . . à Escole le 15 Juin 1785. 4to. (*Toulouse Acad.* 1re Série, iii. 114.) *Toulouse*, 1788

Déclinaison de l'aiguille aimantée observée à Toulouse depuis le commencement de 1747 jusqu'à la fin de 1756. 4to. (*Mém de Math. et de Phys.* iv. p. 117.) *Paris*

**Marcorelle and Darguier.** Observations sur 3 Aurores boréales: 2 by Marcorelle, at Narbonne, 29th February, 1780, 1 by Marcorelle and Darguier, at Narbonne and Toulouse, on the 28th-29th July, 1780. 4to. (*Toulouse Acad.* 1er Série, ii. 20, *Hist.*) *Toulouse*, 1782

† **Marcus,** S. Ueber eine neue Thermosäule. 8vo. 6 pp. 1 plate. (*Abd. aus den Sitzungsberichten der Kais. Akad. der Wissenchaften.*) *Wien*, 1865

**Maréchaux,** Peter Ludwig. *Born December* 28, 1764, *at Prenzlau; died* (?). (*Poggendorff*, ii. 46.) (*Papers in Gilbert's Ann.* x. to xxvii.)
(*Vide* also Erman and Maréchaux.)

**Marelli del Verde** (Conte). Spiegazione della carica e scarica del Quadro Frankliniano. 4to. (*Opuscoli Scelti*, viii. 11.) *Vercelli*, 1785

† Spiegazione della carica, e scarica del quadro Frankliniano esposta. 4to. 12 pp. (*Opus. Scelti.* viii. 157.) *Milano*, 1785

**Mareska,** Joseph Daniel Benoît. *Born September* 9, 1803, *at Ghent; died March* 31, 1858, *at Ghent.*

† De legibus mathematicis electricitatis dynamicæ. 4to. 19 pp. 1 plate. *Gand.* 1826

**Maret,** Hugues. *Born October* 6, 1726, *at Dijon; died June* 11, 1785, *at Dijon.*

Description d'un météore observé à la chartreuse de Dijon le 20 Juillet 1779. 8vo. (*Nouveaux Mém. de l'Acad. de Dijon.*) *Dijon*, 1783

**Margollé et Zurcher,** Les météores. Ouvrage illustré de 23 vignettes sur bois par Lebreton. 18mo. 333 pp. *Paris*, 1864

† Les Météores. 8vo. 332 pp. *Paris*, 1865

Les Météores. 2nd ed. *Paris*, 1867

Les Météores. 3rd ed. revue et augmentée. 18mo. 304 pp. (*Bibliothèque des Merveilles.*) *Paris*, 1870

**Marherr,** Philipp Ambrosius. *Born* 1738, *at Vienna; died March* 28, 1771, *at Prague.*

† Von der Wirkung der Luft-electricität in dem menschlichen Körper aus dem Lat. 8vo. 32 pp. *Chur. u. Linden*, 1780

Prgrm. de electricitatis aeree in corpus humanum actione. 4to. *Vienna*, 1766

**Marherr und Kirchvogel.** Von der Wirkung. d. Luft Elek. *Chur. u. Linden*, 1767

(*Vide* also Bauer and others.)

**Mariani Parthenii,** Josephi. Electricorum, libri vi. (*From a memorandum (or notice) given to Ronalds by the Caval. F. Zantedeschi et Padua in* 1860, *who adds that, at* pp. 33, 34, "*si descrive in quest' opera il telegrafo elettrico scintillante, nel quale era impiegata l'elettricità di attrito e della bottiglia di Leida. Le sillabe e le parole venivano formate con gruppi di scintille di convenzione.*") *Romæ (excudebat generosus Salamoni)*, 1757

**Marianini,** Pietro. *Born June* 30, 1787, *at Zeme, near Novara; died March* 20, 1855, *at Mortara.*

† Proposta dell' Elettromotore voltaico siccome Pato-scopio. Presentata alla terza Riunione degli Scienziati Ital. in Firenze, Settem. 1841. 8vo. 11 pp. (*Giorn. Med.* tom. xv. p. 473.) *Venezia*, 1841

† Sopra il fenomeno che si osserva nelle calamite temporarie di non cessare totalmente, nè quasi totalmente, l'attrazione fra la calamita e l'ancora, quando, al cessar della corrente nel filo conduttore avvolto alla calamita, si conserva l'ancora ad essa applicata. Memoria. 4to. 24 pp. 1 plate. (*Mem. Soc. Ital. delle Scienze*, tom. xxv. p. i.) *Modena*, 1851

† Sopra l'aumento di forza assorbente che si osserva in un' elica elettro-dinamica quando è circondata da un tubo di ferro. Nota. 8vo. 8 pp. *Modena*, 1852

Sopra alcune fogge di calamite artificiali armate e sopra alcuni metodi per Magnetizzare. Memoria. (*Padua Accad. Rivista.*) *Torino*, 1856

† Sperienze relative alla dipendenza che l'attrazione tra calamita e ferro trae dal magnetismo che in questo si produce per influenza. Nota. Seguita da altra nota (del medesimo) su Alcune Sperienze puramente magnetiche relative al fatto che l'intensità del magnetismo di una calamita artificiale è maggiore quando l'ancora vi è applicata. 4to. 15 pp. *Modena*, 1869

**Marianini,** Stefano Giovanni. *Born January* 5, 1790, *at Zeme, near Novara, Piedmont.*

† Saggio di esperienze elettrometriche. 8vo. 206 pp. *Venezia*, 1825

Sul rapporto che esiste fra l'energia degli elettromotori ed i loro effetti. (*Mem. letta all' Ateneo-Veneto*, 20 Marzo, 1823.) *Pavia*, 1825

Memoria sulla perdita di tensione che soffrono gli apparati voltiani quando si tiene chiuso il circolo; e sul riacquistare ch'essi fanno la tensione primitiva quando si sospende la comunicazione fra i poli. 4to. 20 pp. (*Esercit. Ateneo-Veneto*, i. 293.) *Venezia*, 1827

Nuovo Galvanometro moltiplicatore proposto e descritto da S. M. 4to. 3 pp. 1 plate. (*Esercitazioni . . dell' Ateneo di Venezia*, tom. i. p. 318.) *Venezia*, 1827

† Memoria sopra la scossa che provano gli animali nel momento che cessano di fare arco di comunicazione fra i poli di un elettromotore, e sopra qualche altro fenomeno fisiologico dell' Elettricità. 8vo. 32 pp. *Venezia*, 1828

Sulla Teoria degli Elettromotori Voltiani.

His First Memoir on this subject is in tom. xx. *Mem. Soc. Ital.* 1832, 4to. Read 1830.

Second Memoir printed at Venice in 1830. 8vo.

Third Memoir in *Ann. Reg. Lomb.-Veneto*, 1836. 4to.

Fourth Memoir in tom xxi. *Mem. Soc. Ital.* 1837. 4to.

Fifth Memoir in his *Mem. di Fis. Speriment.* an. 2, 1838. 8vo.

† Sixth Memoir in his *Mem. di Fis. Speriment.* an. 2, 1838. 8vo.

**Marianini**, Stefano Giovanni—*continued.*

Sei memorie di fisica. (*Elenco dei libri mandati nei*, 1841-4.) *Modena*

† Memoria sopra la teoria chimica degli elettromotori Voltiani semplici e composti. 8vo. 63 pp. *Venezia*, 1830

Sur une analogie qui existe entre la propagation de la lumière et de l'électricité. 4to. (*Bibl. Universel*, xliii.) *Turin*, 1830

† Memoria sopra le scintille eccitate per entro i liquidi dagli elettromotori. 4to. 9 pp. *Padova*, 1831

Nota sopra il Salto della scintilla a traverso della fiamma. 2 pp. (*Ann. del Reg. Lomb.-Veneto*, i. 128 and 137.) *Padova*, 1831

† Memoria sopra il fenomeno che presenta un arco metallico, di non egual superficie ne' suoi estremi, quando serve a tradurre l'elettricità da un fluido ad un altro della stessa natura. (Letta all'Ateneo di Treviso.) 4to. 11 pp. (*Ann. del Reg. Lomb.-Veneto*, tom. i. p. 281.) *Padova*, 1831

† Sopra la teoria della pila. Memoria. Ricevuta 3 Feb. 1830. 4to. 13 pp. (*Mem. Soc. Ital.* xx. 347.) *Modena*, 1832

† Lettera al Direttore di questi Annali sopra un principio di azione chimica prodotta alla superficie dei metalli dalle correnti faradiane. 4to. 2 pp. (*Ann. del Reg. Lomb.-Veneto*, ii. p. 144.) *Padova*, 1832

† Nota sopra la facoltà elettromotrice del mercurio. 4to. 4 pp. (*Ann. del Reg. Lomb.-Veneto*, iii. 217.) *Padova*, 1833

† Memoria di alcune paralisi curate coll' elettricità mossa dagli apparati voltaici; con un Appendice sopra un nuovo fenomeno elettro-fisiologico. Parte prima, p. 17. Continuazione e fine dell Memoria. Parte seconda e Appendice, p. 68. 4to. 24 pp. (*Ann. del Reg. Lomb.-Veneto*, iii. 17 and 68.) *Padova*, 1833

Sopra le contrazioni muscolari ed alcune sensazioni prodotte dalle correnti elettriche. Memoria letta all' Ateneo-Veneto li 4 Marzo, 1833. Parte prima, 9 pp. Continuazione e fine della Memoria. Parti seconda e terza, 10 pp. 4to. 19 pp. (*Ann. Reg. Lomb.-Veneto*, iv. pp. 32-57.) *Padova*, 1834

† Memoria sopra il fenomeno elettro-fisiologico delle alternative voltiane. Letta all' Ateneo-Veneto, 26 Maggio, 1834. 4to.

Continuazione e fine della Memoria. 4to. (*Ann. del Reg. Lomb.-Veneto*, iv. 2 and 241.) *Padova*, 1834

† Sopra la causa alla quale il Peltier attribuisce le contrazioni che provano gli animali quando s'interrompe il circolo voltiano di cui fanno parte. Lettera all'Accad. Reale di Parigi. 4to. 5 pp. (*Ann. del Reg. Lomb.-Veneto*, v. 301.) *Padova*, 1835

† Sopra la teoria degli elettromotori. Memoria iii. Risposta alle osservazioni del Parrot. 4to. 12 pp. (*Ann. del Reg. Lomb.-Veneto*, vi. 13.) *Padova*, 1836

† Sulla teoria degli Elettromotori. Memoria iv. Esame di alcune sperienze addotte dal Sig. Faraday, &c. Ricevuta li 22 Luglio, 1836. 4to. 41 pp. (*Mem. Soc. Ital.* xxi. 205.) *Modena*, 1837

† Mem. di fisica speriment. scritta dopo il 1836, An. 1, 1837. 8vo. 144 pp. *Modena*, 1838

† Mem. di fisica speriment. scritta dopo il 1836, An. 2, 1838. 8vo. 160 pp. 1 pl. *Modena*, 1838

† 5a Memoria sugli Elettromotori. 8vo. *Modena*, 1838

(*Note.—This is the Anno Secondo of his Memorie di fisica . . scritte dopo* 1836, *under the title "Sulla teoria degli elettromotori Voltaici Mem.* v. *Esame di alcune osservazioni e di alcuni ragionamenti recati a difesa della teoria chimica della pila.*")

**Marianini**, Stefano Giovanni—*continued.*

† 6a Memoria sugli Elettromotori. (*Belli in Bibliot. Ital. C.* 188.) 1838
(*Note.—Sulla teoria degli elettromotori Voltaici Mem.* vi. *Esame e difesa della teoria del contatto, con una digressione sopra una Bottiglia di Leiden la quale, mediante il contatto semplice si carica da se stessa.*)

"Un cenno del congegno che formò il soggetto della digressione sopra una bottiglia di Leiden, p. 88, della Teoria degli elettromotori . Mem. v. fu dato in una lettera al Pietro Marianini del 10 Maggio 1838, e venne poi pubblicato nella Gazzetta piemontese, No. 232 (1838.)" 1838

† Mem. di fisica speriment. scritta dopo il 1836, An. 3, 1839. 8vo. 160 pp. *Modena*, 1839

† Metodo per ottenere i bassi-rilievi in rame senza apposito elettromotore voltaico. 8vo. 17 pp. *Novara*, 1840

† Mem. di fisica speriment. scritta dopo il 1836, An. 4, 1840. 8vo. 144 pp. *Modena*, 1841

† Cenno di esperimenti elettro-grafici. Lettera diretta al . Pietro Marianini di Mortara da Stefano Marianini. (Dated) Modena, 29 Agosto, 1841. (*Estratto dal fascicolo* ii. *del Giornale Letterario Scientifico Modenese, Agosto* 1840.) Elettrografia. Problema, Dato uno scritto o disegno in metallo, stamparlo sulla carta col mezzo dell' elettricità voltaica, e senza far uso d'inchiostro. Modena, 19 Aprile, 1841. (*Estratto dalla Gazzetta Piemontese*, No. 96, Anno 1841.) 8vo. 3 pp. *Vigevano*, 1841

† Di due Paralisi curate coll' elettricità voltaica. Memoria. Letta alla . . terza Riunione degli Scienziati Ital. in Firenze il 21 Sett. 1841. 8vo. 6 pp. (*Giorn. Med.* tom. xv. p. 484.) *Venezia*, 1841

† Metodo di sperimentare la conducibilità per l'elettrico dei metalli. Memoria letta il 3 Luglio all' Accad. . di Modena. 8vo. 2 pp. (*Giorn. I. R. Istit. Lomb.* ii. 287.) *Milano*, 1841

Memorie di fisica sperimentale. 1842

Problemi di Magnetismo nell' Albo offerto dalla Rle. Accad. . . di Modena agli Augti. Sposi Francesco e Aldegonda Principi Ereditarii. *Modena*, 1842

† Memoria sull' indebolimento che avviene nel magnetismo d' un ferro quando si fa scorrere su d'una calamita debole in modo da magnetizzarlo, se non lo fosse, nel medesimo senso in cui già si trova magnetizzato. 4to. 30 pp. (*Mem. Soc. Ital.* xxiii. Parte Fisica.) *Modena*, 1843

† Memoria di alcune analogie e di alcuno discrepanze osservate tra le azioni magnetizzanti della boccia di Leida, della coppia voltaica, e della calamita. 4to. 19 pp. ("*Inserita nella parte fisica del Tomo* xxiii. *delle Mem. della Soc. Ital.*") *Modena*, 1843

† Memoria sopra la corrente che nasce in un filo metallico chiuso, quando si sospende la corrente Voltaica che passa vicina e parallela ad esso. Letta alla R. Accad. . . di Modena . . 5 Agosto, 1841. 4to. 11 pp. ("*Un* sunto *era letto* 27 *Settem.* 1841, *alla* terza *Riun. degli Scienziati.*") *Modena*, 1844

Memoria sul magnetismo dissimulato, e sopra alcuni fenomeni da esso derivati. 4to. 20 pp. (*Mem. Soc. Ital.* xxiii. (*Parte Matematica.*) *Modena*, 1844

Lettera al . . Grimelli intorno alla elettro-metallurgia originale ital. &c. . . (*From Zantedeschi, Trattato* ii. 485.) *Modena*, 1845

† Storia di una sensazione particolare che provava una paralitica quando veniva elettrizzata . . Ricevuta 4 Maggio, 1845. 4to. 10 pp. (*Mem. della Soc. Ital.* xxiii. *Pte. Matem.*) *Modena*, 1846

† Sopra l'azione magnetizzante delle correnti elettriche momentanee. Memoria vii. Influenza del conduttore liquido fatto attraversare dalla scarica della boccia di Leida nella magnetizzazione da essa prodotta nel metallo attorno al quale si fa circolare la scarica stessa. 4to. 27 pp. (*Mem. Soc. Ital.* tom. xxiv. pt. ii.) (*Faraday's Copy.*) *Modena*, 1846

† **Marianini**, Stefano Giovanni—*continued.*

Sull' azione magnetizzante delle correnti elettriche momentanee. Memoria viii. Dell' influenza del ferro, attorno a cui circola una scarica elettrica, nella magnetizzazione di altro ferro, attorno al quale circola pure la scarica medesima. 4to. 24 pp. (*Mem. Soc. Ital.* tom. xxiv. pt. ii. (*Faraday's copy.*) *Modena*, 1847

† Sopra l'azione magnetizzante delle correnti elettriche momentanee. Memoria ix. Sull' influenza che nella magnetizzazione del ferro operata dalla scarica elettrica esercitano i metalli, attorno ai quali si fa circolare la scarica medesima. 4to. 19 pp. (*Mem. Soc. Ital.* tom. xxiv. pte. ii.) *Modena*, 1847

Prospetto delle Memorie elettriche, &c. (*From Grimelli, Storia*, p. 133.)

Sulla proprietà posseduta in particolar modo dai corpi umidi di assorbire l'elettricità dagl'isolanti solidi elettrizzati quando si trovano a contatto con essi. Memoria. 4to. (*Inserita nella parte* ii. *del tomo* xxv. *delle Memorie della Società Ital. delle Scienze residente in Modena.*) *Modena*, 1854

Dell' induzione lcido-magnetico-elettrica. 8vo. (*Il Nuovo Cimento*, iv. 1856.) 1856

† Sulla probabile esistenza di una nuova analogia fra l'Elettricità e la Luce; ossia se il fluido del Franklin abbia a riguardarsi costituito da più fluidi, i quali non posseggano. 4to. 13 pp. (*Mem. della Soc. Ital.* ii. ser. i. 303.) *Modena*, 1862

† **Marianini**, S. e **Marianini**, P. Teorema di elettro-magnetismo e sua dimostrazione. Con una Nota di P. Marianini. 8vo. 2 pp. and 3 pp. 1841

(*Note.—This brochure is headed "Dalla Gazzetta Piemontese,"* No. 190, del 1841. *Fisica sperimentale.*)

† Elettro-plastica. Modi di fare coll' elettricità voltaica impronte o stampi della maggior esattezza, atti a produrre in rame i bassi rilievi metallici. Estratto da una lettera del . Marianini Stefano scritta al fratello suo Pietro addi 14 di Febbrajo, 1841. Nota di Pietro, con Aggiunta. (*Estratto dalla Gazzetta Piem.* No. 119, *del* 1841.) 8vo. 6 pp. *Vigevano*, 1841

† **Marié, A.** De l'application de l'Electricité à la Thérapeutique. 8vo. 77 pp. *Montpellier*, 1854

† **Marié-Davy.** Premier Mémoire sur l'Electricité. 4to. 24 pp. (*Montpellier Acad.* i. 13, *Sect. Sciences.*) *Montpellier*, 1847

† Deuxième Mémoire sur l'Electricité. 4to. 7 pp. (*Montpellier Acad.* i. 37.) *Montpellier*, 1847

† Troisième Mémoire sur l'Electricité. 4to. 15 pp. (*Montpellier Acad.* i. 45.) *Montpellier*, 1847

Instructions sur l'installation et l'usage des instruments de Météorologie.

† Note sur les Instruments de mesure de l'Electricité statique. 4to. 15 pp. (*Montpellier Acad.* i. 315.) *Montpellier*, 1850

† Cinquième Mémoire sur l'Electricité. 2e partie. 4to. 19 pp. (*Montpellier Acad.* ii. 147.) *Montpellier*, 1852-53

† Première note sur l'action de l'Electricité sur le système nerveux. 4to. 16 pp. (*Montpellier Acad.* ii. 265.) *Montpellier*, 1852-3

Première note sur la nouvelle machine Electro-magnétique. 4to. 13 pp. 2 pl. (*Montpellier Acad.* ii. 442.) *Montpellier*, 1854

† Recherches théoriques expérimentales sur l'Electricité, considérée au point de vue mécanique. 8vo. *Paris*, 1861-2

† Météorologie: les mouvements de l'Atmosphère et des Mers considéré au point de vue de la prévision du temps. 8vo. 498 pp. 24 maps. *Paris*, 1866

(*Vide* also Bulletin International.)

† **Marini,** P. Relazione Memoria sul Fulmine caduto in Brescia nella torre della Paletta 1803, e Sul Parafulmine costrutto sopra al palazzo della Loggia da lui 1805. 8vo. (*Comment. dell' Accad. . del Dipartimento del Mella*, tom. i. *Elenco delle Memorie.*) *Brescia*, 1808

**Marini,** T. De electricitate cælesti, sive, ut alii vocant, naturali. 4to. 12 pp. (*Comment. de Bonon. Scient. Instit.* tom. iii. p. 205.) *Bononiæ*, 1755

**Mariotti,** Prospero. *Born* 1703, *at Perugia; died October* 1767, *at Perugia.*

† Lettera scritta ad una dama sopra la cagione de' fenomeni della macchina elettrica. 4to. 26 pp. *Perugia*, 1748

**Marius** (Mayr), Simon. Prognosticon astrologicum das ist ausführliche Beschreibung d. Gewitter, samt andern natürlichen Zufällen, aufs J, 1607. *Onolsbach*, 1606

**Maritime Conférence.** (*Vide* Conférence.)

**Marklin,** G. Catalogus disputationum in Acadd. Scandinaviæ et Finlandiæ a 1778-1820, acced. supplem. ad catal. Lideniarum. 4 vols. 8vo. *Upsaliæ*, 1820

**Marmier,** S. Storia della letteratura in Danimarca ed in Svezia, versione del . F. de Bardi. 2 vols. 8vo. *Firenze*, 1841

† **Marmora,** A. (della). L'Istmo di Suez e la Stazione telegrafico-elettrica di Cagliari. Ragionamento, per far seguito alle sue Questioni marittime spettanti alla Sardegna. 4to. 23 pp. 1 map. *Torino*, 1856

**Marni.** Sulla formazione dell' Acido muriatico per mezzo della Pila . . *Firenze?*

**Marqfoy,** G. De l'abaissement des taxes télégraphiques en France. *Paris*, 1860

Nouveau système d'appareils électriques destiné à assurer la sécurité des chemins de fer. 8vo. 64 pp. 6 plates. *Bordeaux*, 1857

Mémoire sur les essais des ponts en tôle par l'Electricité. 8vo. 16 pp. (*Extrait des Annales Télégraphiques*, Juillet et Août, 1858.) *Paris*, 1858

Notice élémentaire sur la Télégraphie Electrique. 8vo. 29 pp. (*Extrait des Instructions de la Compagnie des Chemins de Fer du Midi.*) *Paris*, 1858

† Discours sur la Télégraphie électrique prononcé à la Société Philomatique de Bordeaux, 22 Mars, 1861. 8vo. 13 pp. *Bordeaux*, 1861

† Des réformes nécessaires en Télégraphie. 8vo. 166 pp. *Paris*, 1866

† **Marqfoy et de Boissac.** Application de l'Electricité aux Annonces d'incendies. Projet présenté à Mons. le Maire (de Bordeaux), &c. 8vo. 24 pp. 1 plate. *Bordeaux*, 1860

**Marqué,** Victor. On Magnetic Declination, Thunder, &c. (*Acad. de Toulouse.*) *Toulouse*, 1827

**Marrigues à Montfort l'Amaury.** Suite de la guérison de la Paralysie d'après la méthode de Mons. l'Abbé Sans. 63 pp. 1773

**Marsault,** J. P. L. Electro-calorique, ou les Paratonnerres réformés . . où l'on trouve un nouveau plan de paratonnerre, etc. 18mo. 76 pp. *Niort*, 1852

**Marseille, Acad.** Mémoires de l'Académie des Sciences, Belles-lettres, et Arts de Marseille. 8vo. *Marseille*, 1846 *to* —

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† **Marsh,** J. On a particular construction of M. Ampère's rotating Cylinder. 8vo. 2 pp. 1 plate. (*Phil. Mag.* lix. 433.) *London*, 1822

**Marshall,** C. (or C. M.) On "an Expeditious method of conveying Intelligence." Letter from Renfrew, 1753. (*Scots' Magazine*, xv. p. 73, 1753.) 1753

(*Note.—In the Athenæum*, No. 1932, Nov. 5, 1864, *is said:* "*In the Scots' Magazine* (vol. xv. p. 73) *of February. The reference should be 'March,' and that we know nothing more of his identity than the initials C. M.*" *Du Moncel*, tom. ii. p. 2, *referring to the Cosmos du* 17 Feb. 1854, *says:* "*Voici ce document tel que nous le trouvons et qui avait été publié en Février*, 1753, *dans le* xv. *volume*, p. 88, *du Scots' Magazine.*" *He then gives the French translation and the original date, viz.* 1st Feb. 1753. (*Vide also Cornhill Mag.* vol. ii. p. 65.)

**Marsigli,** L. F. Conte. Del fosforo minerale. Italico: latine. 4to. 1702

**Martens,** Franz Heinrich. *Born November* 4, 1778, *at Wismar; died May* 11, 1805, *at Jena.*

Volstandige Anweisung zur therapeutischen Anwendung des Galvanismus; nebst einer Geschichte, &c. . 8vo. 336 pp. (*Volta's copy.*) *Leipzig and Weisenfelt,* 1803

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Beschreibung einer Volta'schen Säule. (*From Pogg.* ii. 61.) *Leipzig,* 1803

**Martens,** Martin. *Born December* 8, 1797, *at Maestricht.*

Réflexions sur la théorie électro-chimique de l'affinité et la composition moléculaire des corps. 4to. 15 pp. (*Nouv. Mém. Acad. Brux.* tom. x. 1837.) *Bruxelles,* 1837

Mémoire sur la Pile galvanique et sur la manière dont elle opère les décompositions des corps. 4to. 47 pp. (*Nouv. Mém. Acad. Brux.* tom. xii. 1839.) *Bruxelles,* 1839

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Diverses notices sur la passivité du Fer et des Métaux, et sur l'action de la Pile galvanique. 8vo. (*Bull. Acad. Brux.* vii. viii. ix. x. xi. 1840-44.) *Bruxelles,* 1840-44

Notice sur la théorie de la Pile voltaïque. 8vo. 12 pp. (*Ext. Bulletin Acad. Brux.* ix. No. 3.) *Bruxelles,* 1842

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Mémoire sur la Pile galvanique et ses décompositions. 4to. *Bruxelles,* 1845

Sur les variations de la force électromotrice du Fer. 8vo. (*Bull. Acad. Brux.* xii. 1845.) *Bruxelles,* 1845

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De la théorie électro-chimique dans ses rapports avec la loi des substitutions. 8vo. (*Bull. Acad. Brux.* xvii. 1850.) *Bruxelles,* 1850

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Sur les décompositions Electro-chimiques. 8vo. (*Bull. Acad. Brux.* xix. 1852.) *Bruxelles,* 1852

**Martin.** (*Vide* Roger-Martin.)

**Martin.** (*Vide* Saint-Martin.)

**Martin.** Mémoire sur un coup de Tonnerre qui a éclaté dans l'Eglise de St. Nicolas de Toulouse . . 17 March, 1787. Lu 29 Mai, 1788. 4to. 9 pp. (*Toulouse Acad.* 1re série, iv. 100.) *Toulouse,* 1790

**Martin,** Adam Georg. *Born March* 8, 1812, *at Vienna.*

Repertorium der Galvanoplastik und Galvanostegie. 2 Bde. 8vo. 298 and 201 pp. *Wien,* 1856

(*This work contains very many references to writings, patents, &c., but very few indications of the sources from which they are derived, or even of the dates.*)

**Martin**, A. R. Meteorologiska observationer, giorde på en resa til Spitsbergen. 8vo. (*Vetensk. Acad. Handl.* 1758, *p.* 307.) *Stockholm*, 1758

† Natürlicher Phosphorus; oder Versuche mit Fischen und Fleische, so im Finstern leuchten. 8vo. 5 pp. (*K. Schwed. Akad.* Abh. xxiii. 224.) *Hamburg and Leipzig*, 1761

**Martin**, Benjamin. *Born* 1704, *at Warplesdon, Surrey; died February* 9, 1782, *at London.*

† An Essay on Electricity. 8vo. 40 pp. *Bath and London*, 1746

† A Supplement containing Remarks on a Rhapsody. . . 8vo. 38 pp. *Bath*, 1746

Essay on Electricity. 8vo. (*From Priestley's Catalogue, and Young*, p. 415.) *Bath*, 1748

† Supplement to the Philosophia Britannica. Appendix i. containing new Experiments in Electricity, and the Method of making Artificial Magnets. 8vo. 32 pp. *London*, 1759

**Martin.** (*Vide* Anon. Electricity, 1748.)

**Martin de Brettes.** Mémoire sur un projet de chronographe électro-magnétique, et son emploi dans les expériences d'artillerie. 4to. (*Mém. de l'Acad.* xxv. 751.) *Paris*, 1847

† Mémoire sur un projet de chronographe électro-magnétique, et son emploi dans les expériences de l'artillerie. 8vo. 75 pp. 2 plates. *Paris*, 1849

† Des artifices éclairants en usage à la guerre; et de la lumière électrique. 8vo. 168 pp. 3 plates. *Paris*, 1852

† Etudes sur les appareils électro-magnétiques destinés aux expériences d'artillerie en Angleterre, en Russie, en France, en Prusse, en Belgique. 8vo. 388 pp. 6 plates. *Paris*, 1854

Physique appliquée. Projet de câble télégrapho-magnétique. 8vo. *Paris*, 1856

† Appareils chrono-électriques à induction. Application aux expériences balistiques. 8vo. 205 pp. 4 plates. *Paris*, 1858

Instruction pratique pour l'usage du pendule balistique à induction. 8vo. 179 pp. 3 plates. *Paris*, 1863

**Martin**, H. Du succin, de ses noms divers et de ses variétés suivant les anciens. 4to. (*Mém. présenté à l'Acad. des Inscript.* tom. vi. 1re série, 1re partie.) *Paris*, 1860

De l'Aimant de ses noms divers et de ses variétés suivant les anciens. 4to. *Paris*, 1861

Les attractions électriques: observations et théories des anciens. *Rome*, 1864-5

Les attractions et les répulsions magnétiques d'après les observations des anciens. 4to. *Rome*, 1864-5

Observations et croyances des anciens sur les phénomènes lumineux de l'électricité atmosphérique. (*La Revue Archéologique*, 1865-1866.) *Paris*, 1865-6

(*Note.—This was reprinted with a second part in his "La Foudre, &c.," the title of the whole* (2 *parts*) *being "La Foudre et le Feu Saint-Elme dans l'Antiquité."*

† La foudre, l'électricité et le magnétisme chez les anciens. 12mo. 418 pp. *Paris*, 1866

Observations et théories des anciens sur les attractions et les répulsions magnétiques et électriques. 4to. *Rome*, 1865

**Martin**, Jean Emile. Nouv. école électro-chimique ou chimie des corps pondérables et impondérables. 2 vols. 8vo. *Paris*, 1858-9

**Martini**, K. C. Antheil d. Erdmagnetismus an d. Beschaffenheit d. Metall-Lagerstätten. 8vo. (*Gilbert's Ann.* lxxii. 1822.) 1822

**Martino**, Giamb. San. (*Vide* San-Martino.)

† **Martins-Matzdorff, J.** Katechismus der Galvanoplastik. 8vo. 104 pp. *Leipzig*, 1868

† **Martyn, John.** A Letter from John Martyn to Machin concerning an Aurora Australis, seen March 18, 1738-9, at Chelsea, near London. 4to. 3 pp. (*Phil. Trans.* xli. 840.) *London*, 1739-40-41

† An Account of an Aurora Australis seen Jan. 23, 1749-50, at Chelsea, by John Martyn. Communicated by M. Folkes. Read Jan. 25, 1749-50. 4to. 3 pp. (*Phil. Trans.* xlvi. 319.) *London*, 1749-50

† A Letter from John Martyn to the President concerning an Aurora Australis seen Feb. 16, 1749-50. Read Feb. 22, 1749-50. 4to. 1 p. (*Phil. Trans.* xlvi. 345.) *London*, 1749-50

**Marum, Martin Van.** *Born March* 20, 1750, *at Gröningen; died December* 26, 1837, *at Haarlem.*

Verhandeling over het Electrizeeren door M. Van Marum. in uolke de Beschryving en Afbeelding van ene nieuw uitgevondene Electrizeo-Machine benevens enige meuwe proeven uitgedagt en in 't werk gestold deer den Auteur, en Gerhard Kuyper. 8vo. 96 pp. 1 plate. (*See German Translation.*) *Gröningen and Amsterdam*, 1776

† Abhandlung über das Elektrisiren enthaltend die Beschriebung und Abbildung einer neuerfundenen Elektrisirmaschine nebst einigen neuen Versuchen welche von dem Verfasser mit Hülfe des H. Gerhard Kuyper . ausgedacht und ins Werk gestellt worden sind. Aus dem Holländischen übersetzt von J. W. Möller. 12mo. 102 pp. 2 plates. *Gotha*, 1777

† Antwoord op de Vrag. Door præven te toonen, welke Luchtverhevelingen van de werking der Natuurlijke Electriciteit afhangen, &c. . ? 4to. 74 pp. 2 plates. (*Verhandl. Genootsch. Rotterdam*, vi. 1781.) *Rotterdam*, 1781

† Description d'une très-grande machine électrique placée dans le Muséum de Teyler . et des experiments. 4to. 205 pp. 6 plates. (*In French and Dutch.*) (*Volta's copy.*) *Haarlem*, 1785
(*Note.—This work appeared first in the Teyler's Tweede Genootschap.*)

† Transunto della descrizione della grandissima Macchina elettrica posta nel Museo di Teyler a Harlem, e degli sperimenti con essa fatti. 4to. 16 pp. 1 plate. (*Opuse. Scelti*, ix. 41.) *Milano*, 1786

Beschr. e ungemein grossen Elektrissir Maschine u. d. damit im Tylerschen Museum . angest. Versuche; a. d. Holl. 4to. *Leipzig*, 1786 *and* 1798

Antwoord op de vraag. Welk is de aart van de verschillende schadelyke en verstikkende witdampingen van Moerassen, Moderpoden, Secreten Riolen, &c. mit Van Troostwyk. (*Verhandl. Genootsch Rotterdam*, viii. 1787.) *Rotterdam*, 1787

Sur les paratonnerres. 4to. (*Journ. Phys.* 1787, xxxi.) *Paris*, 1787

Expériences concernant quelques metéores électriques. 4to. (*Journ. Phys.* xxxi. 1787.) *Paris*, 1787

† Première continuation des expériences faites par le moyen de la Machine électrique Teylerienne. 4to. 231 pp. 10 plates. *Haarlem*, 1787

Description des frottoirs élect. (*Journ. des Phys.* xxxiv. 1789 and xxxviii. 1791.) *Haarlem*, 1789-91

Second Letter to Landriani on his Rubbers. 4to. *Paris*, 1791

Description, &c. Continuations. 1re et 2nde. 1795

Seconde Continuation des expériences faites par le moyen de la Machine électrique Teylerienne. 4to. 391 pp. 10 plates. *Haarlem*, 1795
(*Note.—This work first appeared in the Teyler's Tweede Genootschap*, St. 9, Bl. 1. *Vide Reuss, Repert.* iv. 351.)

Description de quelques appareils chimiques nouveaux ou perfectionnés de la fondation Teylerienne, et des expériences faites avec ces appareils. 4to. *Haarlem*, 1798

**Marum**, Martin Van.—*continued.*

† Lettre à Volta contenant des expériences sur la colonne électrique, faites par lui et le Prof. Pfaff dans la laboratoire de Teyler à Haarlem en Nov. 1801. 8vo. 33 pp. 1 plate. *Haarlem*, 1802

(1) Letter to Ingenhouz.

(*Note.—Kuhn, N. Endeck.* i. 104, *refers to his letter to Ingenhouz, containing remarks about the use of baked wood with the glass insulators of conductors.*)

(2) Letter to Landriani.

(3) Description of Rubber.

Letter to De la Mètherie on Death occasioned by Lightning. 4 pp. (*Opusc. Scelti*, xiv. 210.)

(*Poggendorff has "Sur la cause de la mort des hommes, &c. tués par l'élect. ou par la foudre. Journ. Phys.* xxxviii. 1791.")

Lettre à Nauche sur la décomposition de l'eau avec l'appareil élect. ordinaire 8vo. (*Journ. du Galv.* xi. Cahier, p. 187.) *Paris*

Lettre sur une Machine élect. 4to. (*From Young.*)

(*Poggendorff has "sur une nouv. Machine électrique. Journ. Phys.* xxxviii. 1791, *et* xl. 1792.)

**Marum** en **Troostwyk.** Antwood op de Vraag; op te geeven den besten toestel van den electrophore, de byzondere verschynzelen van dit electrish werkting proefkundig te verklaaren, en aan te wüzen, welk nieuw licht hetzelve aan de leere der electriciteit toegebracht heeft, 1783. *Rotterdam*, 1783

Sur la cause de l'électricité des substances fondues et refroidies. 4to. (*Journ. Phys.* xxxiii. 1788.) *Paris*, 1783

(*Vide also* Troostwyk and Marum.)

**Marum**, and **Œrsted.** Expériences faites avec les nouveaux appareils galvaniques de Ritter.

Il y a joint l'imitation de quelques unes de ces expériences avec l'appareil électrique ordinaire. (*Journ. de Chim. de Van Mons*, No. xiv. p. 212.)

† **Marx**, G. Disputatio Physica. De electricitate corporum, quam præside J. L. Schurer, &c. 4to. 28 pp. *Argentorati*, 1755

**Marzari, G.** On Conductors for Lightning. Account of his Admonitions, &c. (*Treviso Athenæum*, vol. ii. p. 73.)

On formation of Hail. (*Id.* vol. iii. p. 53.)

His theory, &c. on Hail. (*Id.* vol. iii. p. 84.)

On Paragrandini. (*Id.* vol. iii. p. 146.)

Discourse on his death. (*Id.* vol. iv. p. i.) 4to. 22 pp. *Padova*, 1834

† **Marzari**, G. e **Toaldo**, G. Memoria Descrizione d'una Tempesta di Fulmini a Castel. Franco. 25 Aprile, 1786. Letta 8 Feb. 1787.

† **Marzari**, G. (or Anon.) Maniera pratica di fare li conduttori ai campanili, alle chiese, ed alle case, descritta per uso dei fabbri, falegnami, e muratori, &c. . stampata per ordine del Magistrato Excell. Alla Sanità. 4to. 37 pp. *Venezia*, 1787

**Masars** (de Cazéles.) Mémoire sur l'électricité médicale. 8vo. 122 pp. *Toulouse and Paris*, 1780

† Second Mémoire sur l'électricité médicale et Histoire du traitment de quarante deux malades. 8vo. 311 pp. *Toulouse et Paris*, 1782

Trois recueils d'observations sur les effets qu'il a obtenus de l'électricité appliquée aux maladies, tantot seule, tantot combinée avec les remèdes qu'employe la médecine, selon qu'il y a été déterminé par les circonstances. 4to. (*Mém. de Toulouse*, tom. ii. *Histor.* p. 59.) *Toulouse*, 1784

Extrait d'un Mémoire sur l'électrisation par bain, par souffle, et par aigrettes. Lu le 26 Juil. 1785. (*Mém. de Toulouse*, iii. p. 365. *Toulouse*, 1788

Recueil de Mémoires et Observations tirés des MSS. de M. Masaré. 8vo. 182 pp *Béziers*, 1792

**Mascagni**, Paolo. *Born February 5, 1755, at Castelletto, near Siena; died October, 1815, at Florence.*

† Lettera ad uno de' Quaranta della Società Italiana sul Galvanismo. 8vo. 14 pp. (*Ann. de Chim. di Brugnatelli*, xxii. 308.) *Pavia*, 1805

† (*This is nearly identical with the following "Lettera," excepting that Brugnatelli has added notes and altered the nomenclature.*)

Lettera ad uno de' Quaranta della Società Italiana delle Scienze. 8vo. 16 pp. 1805

† Portrait. R. Foocsi del. L. Rados inc.

**Mascheroni**, Lorenzo. *Born May 14, 1750, at Castagnetto, near Bergamo; died July 30, 1800, at Paris.*

Maniera di misurare l'inclinazione dell' ago calamitato. 8vo. 23 pp. 1 plate. *Bergamo*, 1782

† La geometria del Compasso. 8vo. *Pavia*, 1797

Géomètrie du Compas. trad. de l'Italien par A. M. Carette. 8vo. *Paris*, 1798

**Mascuelli**, G. De medicina magnetica. (*Vide* Maxwell, for German Translation.) *Francfort*, 1613

**Masenello**, A. Regola di pronostico sul Temporale. 8vo. 19 pp. *Padova*, 1833

**Maskelyne**, Nevil. *Born October 5, 1732, at London; died February 9, 1811, at Greenwich.*

Published something (manifesto) on the subject of Falling Stars, inviting observations, in 1783, which Toaldo reprinted in the Giornale Enciclopedico di Vicenza for the Toaldo Raccolta, vol. iv. p. 253.

(*Vide* also Clarke and Maskelyne.)

† **Massé**, J. De l'Electricité en Thérapeutique. 8vo. 48 pp. *Paris*, 1850

† Quelques mots sur l'appareil galvano-élect. portatif du Prof. Récamier. 8vo. 32 pp. *Paris*, 1851

**Masselotte**, fils E. La Dorure au mat par le procédé pyro-électrique realisée sans danger pour la santé des Ouvriers. 8vo. *Paris*, 1867

**Masson**, Antoine Philibert. *Born August 22, 1806, at Auxonne, Département de la Côte d'Or.*

Recherches sur l'induction exercée par un courant sur lui-même. 8vo. (*Ann. de Phys. et de Chim.* 2me série, lxvi. 5 (and 28), 1837.) (*Du Moncel says* 1836.) *Paris*, 1837

Effets physiologiques des courants induits. 8vo. (*Ann. de Chim. et de Phys.* lxvi. 26.) *Paris*, 1837

† Théorie physique et mathématique des phénomènes electro-dynamiques et du magnétisme. Thèse soutenue . . . 1838. 8vo. 90 pp. 2 plates. *Paris*, 1838

Note sur un essai de télégraphe électrique, fait au collége de Caen. 4to. (*Comptes Rendus*, vii. 88.) *Paris*, 1838

Sur le fluide électrique à l'état de diffusion dans le vide. 4to. (*Comptes Rendus*, vii. 671.) *Paris*, 1838

Thèse. Des phénomènes électro-dynamiques. 8vo. *Paris*, 1838

† Etudes de Photométrie électrique. (1er et 2d Mémoires.) 8vo. 68 pp. 2 plates. (*Ext. des Anns. de Chim.* 3me série, xiv. *Communiqués à l'Acad.* 19 Fév. e 5 Août, 1844.) *Paris*, 1845

Notice sur la photométrie électrique. 8vo. (*Annales de Phys. et de Chim.* 1847. *Paris*, 1847

† Etudes de Photométrie électrique. (3me Mémoire.) 8vo. 51 pp. 1 plate. (*Ann. de Chim.* . . . 3me série, tom. xxx.) *Paris*, 1850

† Etudes de Photométrie électrique. Sur la lumière produite par les courants voltaïques dans l'air et dans les liquides. (Cinquième Mémoire.) 4to. 4 pp. (*Comptes Rendus*, 1851, 1er semestre, xxxii. No. 5.) *Paris*, 1851

**Masson,** Antoine Philibert.—*continued.*

† Note sur la lumière électrique. 4to. 3 pp. (*Ext. des Comptes Rendus . . . de l'Acad.* xxxvi. Séance du 7 Fév. 1853. (*Faraday's copy.*) *Paris*, 1853

† Mémoire sur l'étincelle électrique. (Couronne par la Soc. Hollandaise des Sciences à Haarlem.) 4to. 94 pp. 2 plates. *Haarlem*, 1854

† Notice sur les travaux scientifiques de M. A. Masson. 4to. *Paris*, 1858 ?

**Masson** et **Breguet** fils. Description d'un nouveau télégraphe électrique. 4to. (*Comptes rendus*, vii. 710.) *Paris*, 1838

† Mémoire sur l'induction. 8vo. 24 pp. 1 plate. (*Ann. de Chim. . .* 3me série, tome iv. et *Comptes Rendus*, xiii. 426, 1841.) (*Arago's copy.*) *Paris*, 1842

**Massuet,** Pierre. *Born November* 10, 1698, *at Mouzon on Meuse; died October* 6, 1776, *at Lankeren.*

Essai de Physique par M. P. Van Muschenbrock, avec une description de nouvelles sortes de machines pneumatiques, et un recueil d'expériences par I. V. M. Trad. du Holland. par M. Pierre Massuet. 2 vols. 4to. Portrait and plates. *Leide*, 1751

Eléments de la philosophie moderne. 2 vols. 12mo. Figs. *Amsterdam*, 1752

**Maternus.** (*Vide* Cilano de Maternus.)

† **Mathey,** A. O. Traité pratique de dorure et argenture galvanique appliquées à l'horlogerie. 8vo. 22 pp. 1 plate. (*Ext. du Technologiste*, tom. xvi. 1854-5.) *Paris*, 1855

**Mathieu.** Un Mémoire sur le galvanisme. 4to. (*Recueil de la Soc. d'Agriculture et Sciences d'Autun*, an. x. p. 21.) *Autun*, 1802

**Mathiot,** G. On the Electrotyping operations of the United States Coast Survey. 8vo. 15 pp. 1 plate. (*Extract from the American Journal of Science and Arts*, xv. 2nd series, 1853.) (*Roget's copy.*) *New Haven, U.S.* 1853

**Matteucci,** Carlo. *Born June* 20, 1811, *at Forli, Papal State.*

(*His papers in periodicals, &c., are innumerable. Vide Pogg.* ii. 79, 80, and 81.)

† Discorso sul periodo dei Temporali. 8vo. 9 pp. (*Arago's copy.*) *Firenze*, 1827

† Del Temporale. Discorso. 8vo. 67 pp. *Bologna*, 1828

Discorso sulle pietre meteoriche. 8vo. 12 pp. *Bologna*, 1828

Influenza dell' elettricità terrestre sui Temporali. *Bologna*, 1829

Sulla decomposizione dei Sali metallici per la pila. 8vo. *Forli*, 1830

Influenza del calore sul Magnetismo. 8vo. (*Fusinieri's Annali*, i. 425.) *Forli*, 1831

† Sopra alcuni punti di meteorologia elettrica. 4to. 3 pp. (*Ann. . . del Reg. Lomb.-Veneto*, ii. p. 334.) *Padova*, 1832

† Sulle secrezioni animali. Discorso. 4to. 3 pp. (*Ann. . . del Reg. Lomb.-Veneto*, ii.) *Padova*, 1832

† Sulle correnti elettro-magnetiche di Faraday. Osservazioni. 4to. 3 pp. (*Ann. . . del Reg. Lomb.-Veneto*, iii. 185.) *Padova*, 1833

† Sulla digestione. Cenni. 4to. 3 pp. (*Ann. . . del Reg. Lomb.-Veneto*, iii. 220.) *Padova*, 1833

† Sulle correnti elettromagnetiche di Faraday. Osservazione. 8vo. 6 pp. *Forli*, 1833

† Memoria sopra la formazione della Grandine. Memoria. 8vo. 14 pp. *Pesaro*, 1834

Sur l'électricité animale. Mém. présenté à l'Acad. de Bruxelles. 8vo. 4 pp. *Florence*, 1834

† Analisi d'una nuova specie di calcolo intestinale. 4to. 3 pp *Ann. . . del Reg. Lomb.-Veneto*, iv. 117.) *Padova*, 1834

**Matteucci**, Carlo.—*continued.*

Sul passaggio della corrente elettrica attraverso i liquidi. Memoria. 8vo. *Firenze*, 1835

† Sur la propagation du courant électrique dans les liquides. 8vo. 89 pp. *Paris*, 1837

† Recherches physiques, chimiques, et physiologiques sur la Torpille. 8vo. 39 pp. (*Tiré de la Bibliothèque Univ. de Genève*, Novembre, 1837.) *Genève*, 1837

Application of the Electric Current in a case of Tetanus. 8vo. (*Bibliot. Univers.* Mai, 1838.) *Genève*, 1838

† De la force chimique du courant Voltaïque. 3me Mémoire. (Dated Ravennæ, 14 Mai, 1839.) 8vo. 12 pp. (*Arago's copy.*) *Paris*, 1839?

† De la diffusion du courant électrique dans les liquides. (Dated Ravennæ, 1 Juin, 1839.) 8vo. 4 pp. (*Arago's copy.*) *Paris*, 1839

Elettricità fisiologica-medica. (*From Zantedeschi, Trattato*, ii. 354.) *Modena*, 1839

† Essai sur les phénomènes électriques des animaux. 8vo. 88 pp. 1 plate. *Paris*, 1840

† De l'induction du courant électrique de la Bouteille de Leyde. 8vo. 20 pp. ("*Tiré de la Bibliothèque Universelle de Genève.*") (*Arago's copy.*) *Genève*, 1840?

† Deuxième Mémoire sur le courant électrique propre à la Grenouille et sur celui des Animaux à sang chaud. 8vo. 43 pp. *Paris*, 1841

† "Il M. mostra alla Sezione (fisica) . . . e descrive un istrumento da lui chiamato Induzionmetro differenziale." 4to. 1 page. (*Scienziati Ital. Congress.* 1841. *Sezio. fis.* p. 234.) *Firenze*, 1841

Lettera all'Amici (Prof.) Rana. *Modena*, 1842

† Sur la Phosphoréscence excitée par la lumière solaire, par l'Etincelle électrique et par les flammes du phosphore, du potassium et du sodium. 8vo. 16 pp. (*Bibliot. Universelle*, Juillet, 1842.) (*Arago's copy.*) *Genève*, 1842

Lezioni di fisica date nell' I. R. Università di Pisa. 1st edition. 3 vols. 8vo. *Pisa*, 1841-2

(*The second volume appropriated to Electricity, and has 716 pages and 7 plates.*)

† Ricerche fisico-chimiche della Fosforescenza delle Lucciole. 8vo. 16 pp. (*Estr. dalle Miscellanee di Chimica, Fisica, &c. Giornali che si publicano in Pisa*, anno i. 1843.) *Pisa*, 1843

(*Not electrical.*)

† Traité des phénomènes électro-physiologiques des Animaux; suivi d'études anatomiques sur le système nerveux et sur l'organe électrique de la Torpille par P. Savi. 8vo. 348 pp. 6 plates. *Paris*, 1844

† Fenomeni fisico-chimici dei corpi viventi. Lezioni. 1st edition. 8vo. 186 pp. *Pisa*, 1844

† Lezioni di Fisica . . date nell' I. e R. Università di Pisa. Seconda edizione corretta ed ampliata. 8vo. 473 pp. 10 plates. (*Faraday's copy.*) *Pisa*, 1844

† Mesure de la Force Nerveuse développée par le Courant électrique. 8vo. 15 pp. 1 plate. (*Ext. des Ann. de Chim. et de Phys.* 3me série, tom. xi.) *Paris*, 1844

Note sur la conductibilité de la terre pour le courant électrique. 4to. (*Comptes Rendus*, xviii. 1032 and xxii. 86.) *Paris*, 1844-46

Sur l'emploi de la Terre comme conducteur pour le télégraphe électrique. 4to. (*Comptes Rendus*, xx. 1431.) *Paris*, 1845

† Account of a new experiment in Electro-Statical Induction . . . in a letter to Dr. Faraday. 8vo. 2 pp. (*Phil. Mag.* for April, 1845.) *London*, 1845

Sur l'état électrique des corps cohibens. 4to. (*Comptes Rendus.*) *Paris* 1846

**Matteucci**, Carlo.—*continued.*

Leçons sur les phénom. phys. et chim. des corps vivants. 18mo. *Paris*, 1846

† Lezioni sui fenomeni fisico-chimici dei corpi viventi. 2nd edition. 8vo. 328 pp. *Pisa*, 1846

† Ricerche Elettro-Fisiologiche. Corrente muscolare: Prima Memoria, p. 268, 19 pp. Della Corrente propria della Rana: Seconda Memoria, p. 286, 8 pp. Sulla Contrazione indotta: Terza Memoria, p. 356, 23 pp. 4to. (*Mem. della Soc. Ital.* tom. xxiii. *Matem.*) *Modena*, 1846

† "Leçons sur les phénomènes physiques des corps vivants par C. Matteucci. Ed. française publiée, avec des additions considérables sur la 2me édition italienne." 12mo. 406 pp. Cuts. *Paris*, 1847

† Lectures on the Physical Phenomena of Human Beings, translated by Pereira; with corrections and additions by Matteucci and notes by Pereira. 8vo. 435 pp. *London*, 1847

† Sopra la Fosforescenza del Mare, e dei Pesci. Dated Viareggio, 20 Agosto, 1847. 8vo. 10 pp. (*Arago's copy.*) *Pisa*, 1847

Sur l'influence du magnétisme sur le pouvoir rotatoire de quelques corps. 8vo. (*Ann. de Chim. et de Phys.* xxiv. 1848.) *Paris*, 1848

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Extrait d'un mémoire sur la conductibilité de la terre. 4to. (*Comptes Rendus*, xxx. 774.) *Paris*, 1850

Lezioni di fisica. Terza edizione, Napolitana sulla terza di Pisa intieramente rifusa ed ampliata di nuove lezioni da R. C. con un supplemento diviso in due lezioni . . per Giuseppe M. Paladini. With atlas. 8vo. *Napoli*, 1850

† Manuale di Telegrafia elett. 12mo. 205 pp. 1 plate. *Pisa*, 1850

† Réponse aux deux dernières lettres de M. de Bois-Reymond inserées dans les Nos. 17 et 18 des Comptes-Rendus de l'Acad. &c. . . . Présentée à l'Acad. des Sciences, Pisa, 4 Mai, 1850. 8vo. 8 pp. *Florence*, 1850

Lezioni di fisica date nell' I. R. Università di Pisa. 4th edit. 3 vols. 4to. *Pisa*, 1851

† Manuale di Telegrafia elettrica. Seconda editione con aggiunte. 8vo. 224 pp. *Pisa*, 1851

Recherches expérimentales sur la propagation du courant électrique dans la terre. 4to. (*Comptes Rendus*, xxxii. 511; *L'Instit.* 1851, p. 116.) *Paris*, 1851

† Lezioni di Elettricità applicate alle arti industriali all' economia domestica e alla terapeutica. 8vo. 199 pp. *Torino*, 1852

† Dei recenti progressi della Telegrafia elettrica. Discorso letto nell' Università di Pisa il 18 Nov. 1852. 8vo. 20 pp. (*Estr. dal Crepuscolo*, an. iv. No. xix.) *Milano*, 1853

† Lettre de C. Matteucci à Mr. H. Bence Jones, éditeur d'une brochure On Animal Electricity ou Extrait des Découvertes de M. Du Bois-Reymond. 8vo. 16 pp. *Florence*, 1853

† Cours spécial sur l'Induction, le Magnétisme de rotation, le Diamagnétisme, et sur les relations entre la force magnétique et les actions moléculaires. 8vo. 278 pp. 2 plates. *Paris*, 1854

† Sui fenomeni fisici e chimici della contrazione muscolare. Ricerche. Prolusione al corso dei fenomeni fisico-chimici dei corpi viventi. Letta il 10 Marzo, 1856. 8vo. 33 pp. (*Estr. del Nuovo Cimento*, an. ii. vol. iii.) *Torino*, 1856

† Lezioni di Elettro-fisiologia. Corso dato nell' Università di Pisa nell' anno 1856. 8vo. 88 pp. *Torino*, 1856

† Electro-Physiological Researches. Physical and Chemical Phænomena of Muscular Contraction. 10th series, part i. Communicated by Michael Faraday. Received June 12; read June 19, 1856. 4to. 25 pp. (*Phil. Trans.* 1857.) *London*, 1857

**Matteucci,** Carlo.—*continued.*

† Cours d'électro-physiologie professé à l'Université de Pise en 1856. 8vo. 177 pp. 2 plates. *Paris*, 1858

Sui fenomeni elettro-magnetici sviluppati dalla torsione. Ricerche esperimentale. 8vo. (*Nuovo Cimento*, vii. 66, 1858.) *Torino*, 1858

† Sulla forza elettro-motrice secondaria de' Nervi e di altri tessuti organici. Mem. 8vo. 14 pp. (*Estr. dal Nuovo Cimento*, vol. xi. Fascicolo 1.) *Pisa*, 1860

† Manuale di Telegrafia elettrica. 8vo. 394 pp. 3 tables. 6 plates. *Torino*, 1861

† Corso di elettro-fisiologia in sei lezioni date in Torino. Raccolte stenograficamente e rivedute dall' autore. 8vo. 142 pp. *Torino*, 1861

† Sur les phénomènes physiologiques des animaux. *Paris*

† Mém. sur la propagation de l'Elect. dans les corps isolants, solides, et gazeux. 8vo. 45 pp. (*Ext. Ann. de Chim.* 3me série, xxviii.) *Paris*

† Mém. sur la propagation de l'Electricité dans les corps solids isolants. 2me partie. 8vo. 39 pp. 1 plate. (*Ext. Ann. de Chimie*, 3me série, xxvii.) *Paris*

† Mém. sur le dévelopement de l'élect. dans les combinaisons chimiques, et sur la théorie des piles formées avec un seul métal et deux liquides différents. 8vo. 20 pp. (*Ext. des Annales de Chimie*, tom. xxxiv.) *Paris*

† De la méthode expérimentale dans l'étude des phénomènes de la vie. 4to. 20 pp. *Florence*

† Recherches sur le courant propre de la Grenouille et des animaux à sang chaud. Mémoire qui fait suite aux Recherches sur les phénomènes électriques de la Torpille et sur le courant propre de la Grenouille. 8vo. 36 pp. (*Ext. des Archives de l'Electricité . . . de Genève.*)

La pila di Volta. Lettura. 16mo. 48 pp. *Firenze*, 1867?

Note sur la résistance de la terre. 8vo (*Ann. des Chim. et Phys.* (3), xli. 173.) *Paris*

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**Morveau,** Louis Bernard Guyton de. *Born January* 4, 1737, *at Dijon; died Jan.* 2, 1816, *at Paris.*

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*† **Moseley,** W. M. Some account of the Solar spots which appeared during the year 1816. 8vo. 5 pp. (*Phil. Mag.* xlix. 182.) *London,* 1817

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**Mousson**, Joseph Rudolph Albert. *Born March* 17, 1805, *at Solothurn.*

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† **Mousson**, A. Note sur les courants électriques développés dans l'action chimique des liquides les uns sur les autres. 8vo. 6 pp. (*Bibl. Univ.*) (*Arago's copy.*)

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**Muller**, Von. (*Vide* Sonntag, A.)

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† **Muller**, C. H. Übersetzung von Singer. (*Vide* Singer.)

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(*Note.—Musschenbrock, Institutiones, says*, p. 239, "*Schreiben von der Ursache der Elekt.*

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Made, about the year 1778, very effective Electric machines and Electrophori of a kind of paper specially adapted to the purpose.

(*He was originally a bookbinder.*)

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(*This is an amended version of his work* (*Thesis*) *of* 1838.)

**Muncke,** Georg Wilhelm. *Born November* 28, 1772, *at Hillingsfeld, near Hameln; died October* 17, 1847, *at Grotskmehlen.*

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† (Art.) Magnetismus in Gehler's Wörterbuch. Bd. vi. 2es Abth. (*Vide* Horner.) 8vo. 558 pp. *Leipzig*, 1836

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† Art. Physik in Gehler's Wörterbüch, vol. vii. p. 493.

† Electromagnetismus. Artikel des neuen Gehlerschen Wörterbuchs.

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Anzeiger fur Kunst und Gewerbefleiss in Bayern. *München*

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**Murphy**, Patrick. *Died December* 1, 1847, *at London.*

† Rudiments of Gravity, Magnetism, and Electricity, in their agency on the Heavenly Bodies. 8vo. *London*, 1830

**Murphy**, Robert. *Born in co. Cork, Ireland; died March* 12, 1843.

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† **Murray**, Sir James. Electricity as a cause of Cholera or other Epidemics, and the relation of Galvanism to the action of Remedies. 12mo. 160 pp. *Dublin*, 1849

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(*Note.—I recollect his mention to me of it.—F.R.*)

† **Murray**, J. Observations on Electrical and Chemical terms. 8vo. 3 pp. (*Phil. Mag.* xliii. 175.) *London*, 1814

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† **Nippoldt,** W. A. Untersuchungen über den galvanischen Widerstand der Schwefelsäure bei verschiedenen Concentrations-graden. Inaugural-Dissertation . . 8vo. 40 pp. *Frankfurt a. Maine*, 1869

† **Nivelet.** Electricité médicale. De l'électrisation géné alisée ou d'une méthode . d'appliquer l'électricité au traitement des maladies internes. 8vo. 107 pp. (*In Reinwald's Cat. for* 1861.) *Nancy et Paris*, 1860

† Mémoire sur la différence d'action physiologique et chimique des pôles positif et négatif dans les courants voltaïques ou continus et dans les courants intermittents d'induction. Suivi de deux Lettres . . 8vo. 31 pp. *Paris et Commercy*, 1861

† Guide pratique du médecin électricien ou théorie des appareils Volta-magnétiques . . 8vo. 54 pp. 3 plates. *Paris et Commercy*, 1862

Application de l'électricité d'induction au traitement de la goutte sciatique, et des névralgies en général. 8vo. 1863

† **Nixon,** J. Meteor observed September, 1828, at Horton, in Ribblesdale. 8vo. 1 p. (*Phil. Mag. or Annals*, iv. 316.) *London*, 1828

† **Noad,** H. M. Course of Eight Lectures on Electricity, Galvanism, Magnetism, and Electro-Magnetism. (First edition.) 12mo. 382 pp. 1 cut. *London*, 1839

† Lectures on Electricity; comprising Galvanism, Magnetism, Electro-magnetism, and Thermo-electricity. Second edition enlarged. 8vo. 457 pp. *London*, 1844

† A Manual of Electricity: including Galvanism, Magnetism, Diamagnetism, Electro-dynamics, Magneto-electricity, and the Electric Telegraph. 4th edition entirely re-written. Part i.—Electricity and Galvanism. 8vo. 522 pp. 1 plate. *London*, 1855

† A Manual of Electricity: including Galvanism, Magnetism, Diamagnetism, Electro-dynamics, Magneto-electricity, and the Electric Telegraph. 4th edition entirely re-written. Part ii.—Magnetism and the Electric Telegraph. 8vo. 910 pp. 1 cut. *London*, 1857

The Inductorium, or Induction Coil: being a Popular Explanation of the Electrical Principles on which it is constructed. Third edition. 8vo. Engravings. *London*, 1858

† The Induction Coil; being an Explanation of the Principles of its Construction, with a Description of Experiments illustrative of the Phenomena of the Induced Current. Second edition. 12mo. 109 pp. 1 cut. *London*, 1866

† Student's Text-book of Electricity. 519 pp. 8vo. *London*, 1866

**Nobili,** Ant. Memoria sulle stelle cadenti . . Letta 14 Agos. 1838. 4to. 28 pp. (*Accad. di Napoli*, tom. v. part i. p. 119.) *Napoli*, 1845?

**Nobili,** Leopoldo. *Born* 1784, *at Trassilico, near Reggio* (*Modena*); *died August* 5, 1835, *at Florence.*

L'identità dell' attrazione molecolare coll' attrazione astronomica. 4to. 4 pl. *Modena*, 1819

† Introduzione alla meccanica della materia. 8vo. 194 pp. 7 plates. *Milano*, 1829

† Nuovi trattati sopra il Calorico l'Elettricità e il Magnetismo. 8vo. 401 pp 8 plates. *Modena*, 1822

† Sul confronto dei circuiti elettrici coi circuiti magnetici. 8vo. 48 pp. *Modena*, 1822

Sur la lumière des Aurores Boréales, imitée par une expérience électromagnétique. 8vo. (*Bibl. Univ.* xxv. 1824.) *Genève*, 1824

† Questioni sul Magnetismo. 8vo. 181 pp. 4 plates. *Modena*, 1824
(*Copies with the spurious title-page dated* 1838 *were issued after his death in* 1835.)

**Nobili**, Leopoldo.—*continued.*

Sur le courant électrique de la grenouille. 8vo. (*Bibl. Univers.*) *Geneva*, 1827

Sopra un Galvanometro con nuove aggiunte. Mem. presentata alli 31 Luglio, 1826. 4to. 13 pp. 1 plate. (*Ital. Soc. Mem.* xx. p. 173.) *Modena*, 1828

Analisi . . . degli effetti elettrofisiologici della rana. *Reggio*, 1829

Termo moltiplicatore, ossia termoscopio elettrico. (*From Zantedeschi, Trattato*, i. p. 334.) *Reggio*, 1829

† On the Colours produced upon Steel-plates. Exhibited and explained at a Friday evening meeting at the Royal Institution, January 30, 1829. 8vo. 1 page. *London*, 1829

Estratto di alcune Memorie pub. dal Nobili. (On colours of metals under the action of the Pile, &c.) 4to. *Padova*, 1831

† Teoria fisica dell' Induzione elettro-dinamica. 8vo. 35 pp. 1 plate. *Firenze*, 1832

† Nuove osservazioni sopra le apparenze elettro-chimiche, &c. 8vo. 12 pp. 1 plate. (*Arago's copy.*) *Firenze*, 1833

† Neue Beobachtungen über d. elektrochemischen Figuren, die electro-dynamischen Gesetze, u. d. innern Mechanismus d. voltaischen Säule. 8vo. 17 pp. 1 plate. (*Poggendorff's Annalen d. Phys.* xxxiii.) *Leipzig*, 1834

† Descrizione di due nuove pile termo-elettriche, &c. 8vo. 20 pp. *Firenze*, 1834

† Sopra l'Elettricità animale. 8vo. 4 pp. *Firenze*, 1834

† Note sul Magnetismo—

1. Sopra la distribuzione del magnetismo nell' interno delle Calamite. (Dated 10 Gennajo, 1834.)
2. Sopra la forza coercitiva. (Dated 14 Gennajo, 1834.) 8vo. 7 pp. for both. (*Arago's copy.*) 1834

† Memorie ed Istrumenti edite ed inedite. 2 vols. 8vo. 14 plates. *Firenze*, 1834 (*In* vol. ii. *is an enumeration of the Memorie ed Istrumenti, which were probably printed originally at Reggio in* 1826 *to* 1830.)

† Memoria su l'andamento e gli effetti delle correnti elettriche dentro le masse conduttrici. 8vo. 51 pp. *Firenze*, 1835

Nota sopra alcuni perfezionamenti. (*From Zantedeschi, Trattato*, ii. 182.)

Elogio storico del Cav. Prof. Leopoldo Nobili letto dal V. Antinori alla Soc. Columbaria . . . 24 Gennajo, 1836. *Firenze*, 1836

† Cenni storici sulla vita e sulle principali scoperte del Cav. Leopoldo Nobili scritti dal E. Giorgi, Ricevuti 1 Agosto, 1837. 4to. 16 pp. Portrait. (*Mem. Soc. Ital.* tom. xxii. p. 100.) *Modena*, 1839

Elogio funebre del Prof. Leopoldo Nobili scritto dall' Ab. G. Castelli. (*From Grimelli, Storia*, p. 85.) *Firenze*, 1841

† Elogio storico del Cav. Professore Leopoldo Nobili scritto dal F. Bordè. 8vo. 62 pp. *Modena*, 1847

† **Nobili** ed **Antinori.** Sopra la forza elettromotrice del Magnetismo. 8vo. 15 pp. (*Nell' Antologia*, No. 131, Nov. 1831.) (*Arago's copy.*) *Firenze*, 1831

Descrizione delle nuove calamite elettriche ed osservazioni sulle medesime, Mag. 20, 1832. 8vo. *Firenze*, 1832

Nuovo condensatore elettro-dinamico del Nobili, Mag. 8, 1832. 8vo. *Firenze*, 1832

Sulla sensibilità del termo-moltiplicatore del Nobili, Mag. 11, 1832. 8vo. (Tutti Estratti dall' Antologia, No. 136. 25 pp. per tutti 3o.) *Firenze*, 1832

† Sopra le forza elettromotrice del Magnetismo. Estratta dall' Antologia, No. 131, November, 1831. Dated Dal Museo, 1832. 4to. 10 pp. *Ann. del Reg. Lomb.-Veneto*, ii. 96.) *Ann. del Reg. Padova*, 1832

On the electromotive force of Magnetism, with Notes by Faraday. 8vo. (*Antologia di Firenze*, No. 131, *and Phil. Mag.* June, 1832.) *London*, 1832

**Noble.** (*Vide* Le Noble.)

**Noble.** (*Vide* Le Noble d'Artion.)

† **Nocetus,** C. De Iride et Aurora-boreali. Carmina . . . cum Notis Boscovich. 4to. 127 pp. 2 plates. *Romæ*, 1747

**Noel,** F. Observationes mathematicæ et physicæ in India et China factæ ab anno 1684 ad annum 1708, una cum mappa stellarum australium, &c. 4to. (*From Whiston's Longitude*, p. xxiii.) *Prague*, 1710

**Nöggerath,** Jacob. *Born October* 10, 1788, *at Bonn.*

Neue Beobachtungen. 8vo. (*Vide* Haüy.) *Bonne*, 1819

† Über die am 7ten Mai, 1822, zu Bonn niedergefallenen Hagelmassen, &c. 4to. 16 pp. 1 plate.

† On Meteoric Iron from Mexico. In a Letter to Dr. Chladni. 8vo. 2 pp. (*Phil. Mag. or Annals*, ii. 46.) *London*, 1827

Über d. magnet. Polarität zweier Basaltfelsen in d. Eifel, u.s.w. 8vo. (*Schweigg. Journ.* lii. 1928, p. 224.) *Nürnberg*, 1828

Die Bruchhauser Steine am Issenberg. (*Karsten's Arch. f. Min.* iii. 1831.) 1831

**Nöggerath** mit **Bischof.** Meteoreisen von Bitburg. 8vo. (*Schweigg. Journ.* xliii. 825.) *Nürnberg*, 1825

† **Nöggerath** and **Reuss.** On the Magnetic Polarity of two Rocks of Basalt near Nürnburg in the Eifel, with some observations on the extension of Basalt in that district; drawn up from the observations of Bergmeister Schulze, of Düren. On the Magnetic Polarity of two Basaltic Rocks in the lordship of Schröckenstein. By M. Reuss, of Berlin. 8vo. 5 pp. (*Schweigg. Journ. and Phil. Mag.* viii. 174.) *London*, 1830

(*Vide* also Chladni and others.)

**Nollet,** Jean Antoine. *Born November* 19, 1700, *at Pimpre, Diocèse Noyon; died April* 24, 1770, *at Paris.*

Programme, ou Idée générale d'un Cours de Physique expérimentale. 12mo. 190 pp. *Paris*, 1738

(*There was probably a 4to. edition of* 1735.)

Expériences physiques faites à Bordeaux en 1741 divisées en 16 Leçons. 4to. MS. (*From the Cat. of the Bordeaux Pub. Lib.*) *Bordeaux, n. d.*

† Leçons de Physique expérimentale. 1er édit. 1er et 2d vol. 12mo. Paris, 1743; 3me vol. 12mo. Paris, 1745; 4me vol. 12mo. Paris, 1748; 5me vol. 12mo. Paris, 1755; 6me vol. 12mo. Paris, 1764. (*Les Propriétés de l'Aimant*, tom. vi. p. 160; *Electricité*, tom. vi. p. 234.)

(*His conjectures as to the identity of Lightning and Electricity*, tom. iv. p. 314, *in* 1748. *There are various other sets, composed of vols. of different editions, dates, &c.*)

Conjectures sur les causes de l'Electricité des corps. 4to. (*Mém. de Paris*, 1745, *Hist.* p. 4, *Mém.* p. 107.) *Paris*, 1845

Conjectures tirées de l'expérience. 1745-46

(*Forms the third part of his Essai*, p. 138, *and is extracted from two Memoirs which he read at the Acad. de Paris in April*, 1745, *and "après Pâques" in* 1846. *The Memoir read April* 5, 1745, *is entitled "Conjectures sur les Causes de l'Electricité." The Memoir read "après Pâques" in* 1846 *is perhaps that entitled "Observations sur quelque nouveaux phénomènes d'électricité."*)

On a Blue-glass Machine. (*Acad. de Paris.*) *Paris*, 1745

Observations sur quelques nouveaux phénomènes d'électricité. 4to. (*Mém. de Paris*, 1746, *Hist.* p. 1, *Mém.* p. 1.) *Paris*, 1746

The contents of his first Memoir, read in the Accad. Reale, 1746. (*Mem. de Trevoux, Art.* 69 of June, 1746.) 1746

On the Leyden Phial. Letter to S. Wolfe, dated Versailles, May 8. (*Dantzig Mem.* tom. i. p. 409. Forms part of *Graloth's Geschichte d. Elekt.*) 1746

**Nollet,** Jean Antoine.—*continued.*

† Essai sur l'Electricité des corps. 1er édit. 12mo. 227 pp. 4 plates. *Paris*, 1746

Essai sur l'Electricité. 4to. 131 pp. 1 plate. *Madrid*, 1747

† Saggio intorno all' Elettricità de' Corp. trad. dal Francese. Aggiuntevi alcune esperienze ed osservazioni . . . del Sig. Gugl. Watson. 12mo. 254 pp. 5 plates. *Venezia*, 1748

Abhdl. v. d. Elektricität d. Körper a. d. Frz. 8vo. *Erfurt*, 1748

† Part of a Letter from Abbé Nollet to Folkes, M. concerning Electricity. Translated from the French by Stack, T. Read February 11, 1747-8. 4to. 8 pp. (*Phil. Trans.* xlv. 187.) *London*, 1748

Eclaircissements sur plusieurs faits concernant l'Electricité. (4 Méms.) 4to. (*Mém. de Paris*, 1747, *Hist.* p. 1, *Mém.* p. 102, 149, 207 (1848), 164.) *Paris*, 1847-8

Vorles. über die Elementarphysik a. d. Frz. 9 vols. 8vo. *Erfurt*, 1748-72

† Recherches sur les causes particulières des phénomènes électriques. 1re édition. 12mo. 444 pp. 8 plates. *Paris*, 1849

† Extract of a letter from Nollet to Charles, Duke of Richmond, accompanying an Examination of certain Phænomena in Electricity, published in Italy, by the same, and translated from the French by W. Watson. Read March 29, 1750. 4to. 30 pp. (*Phil. Trans.* xlvi. 368.) *London*, 1749

† Ricercho sopra le cause particolari de' fenomeni elettrici, &c. 8vo. 334 pp. 8 plates. *Venezia*, 1750

Examination of certain Phænomena in Electricity. 4to. (*Phil. Trans.* 1750, p. 368.) *London*, 1850

Essai sur l'Electricité des Corps. 2e edition. 12mo. 272 pp. 4 plates. *Paris*, 1750

On extracting Electricity from the Clouds. 4to. (*Phil. Trans.* 1752, p. 553.) *London*, 1750

Comparaison raisonnée des plus célèbres phénomènes d'électricité tendant à faire voir que ceux qui nous sont connus jusqu'à présent, peuvent se rapporter à un petit nombre de faits qui sont comme les sources de tous les autres. 4to. (*Mém. de Paris*, an. 1753, *Hist.* p. 6, *Mém.* 429 and 475.) *Paris*, 1753

Sur la prétendue distinction des électricités en plus et en moins. Partie i. 4to. (*Mém. de Paris*, an. 1753, *Hist.* p. 6, *Mém.* p. 475 ?) *Paris*, 1753

† Lettres sur l'Electricité. Première partie (ou vol.), 1re édition. 12mo. 264 pp. 4 plates. *Paris*, 1753

Suite du Mém., dans lequel j'ai entrepris d'examiner si l'on est bien fondé à distinguer des électricités en plus et en moins. 4to. (*Mém. de Paris*, an. 1755, *Mém.* p. 293.) *Paris*, 1755

Observation sur un météore en manière de colonne de feu qui embrasa une écurie et tua quatre chevaux. 4to. (*Mém. de Paris*, an. 1759, *Hist.* p. 35.) *Paris*, 1759

Observation sur une Aurore Boréale complète; vue à Upsal. 4to. (*Mém. de Paris*, an. 1759, *Hist.* p. 37.) *Paris*, 1759

† Lettres sur l'Electricité. Deuxième Partie (ou vol.), 1re édition. 12mo. 284 pp. 4 plates. *Paris*, 1760

Lettere intorno all' Elettricità . . . del Sig. Abate Nollet . . tradotte dal Francese. (2 parts only.) ? vols. 8vo. 1st vol. 228 pp. 4 plates. 2nd vol. 256 pp. Plates. *Napoli*, 1761

Nouvelles expériences d'Electricité faites à l'occasion d'un ouvrage publié depuis peu en Angleterre par Robert Symmer. 4to. (*Mém. de Paris*, an. 1761, *Hist.* p. 10, *Mém.* p. 244.) *Paris*, 1761

Réflexions sur quelques phénomènes cités en faveur des électricités en plus et en moins. Part i. 4to. (*Mém. de Paris*, an. 1762, *Hist.* p. 10, *Mém.* p. 137 and 270.) *Paris*, 1762

**Nollet,** Jean Antoine.—*continued.*

Mémoire sur les effets du Tonnerre comparés à ceux de l'Electricité avec quelques considérations sur les moyens de se garantir des premiers. 4to. (*Mém. de Paris*, an. 1764, *Hist.* p. 1, *Mém.* p. 408.) *Paris*, 1764

Sendschreiben v. d. Electricität a. d. Fiz. 8vo. *Erfurt*, 1765

Application curieuse de quelques phénomènes d'Electricité. 4to. (*Mém. de Paris*, an. 1766, *Hist.* p. 1, *Mém.* p. 323.) *Paris*, 1766

† Lettres sur l'Electricité. Troisième Partie (ou vol.) 1re édition. 12mo. 295 pp. 4 plates. *Paris*, 1767

Vergleichung d. Wirkung des Donners mit der Electricität. 8vo. *Prag. Hohenberg*, 1769

Lettres sur l'Electricité. Troisième Partie (ou vol.) 2me• édition. 12mo. 295 pp. 4 plates. *Paris*, 1770

L'abbé Nollet de Pimprez, par Lecot. 8vo. 76 pp. *Noyon*, 1856

Mitteis, H., Abbé Nollet in seiner Stellung gegen B. Franklin. 4to. 12 pp. (*Programm, &c., des Kais. Konigl. Obergymnasiums zu Laibach, fur* 1856.) *Laibach*, 1856

**N. . . . (l'Abbé).** (*Vide* Anon. Elect. 1781. *Vide* also Anon. Elect. 1745.)

**Nolloth,** M. S. On the submergence of the Atlantic Telegraph Cable. 8vo. 15 pp. Diagram. *London*

(*Note.—This pamphlet is contained with others in a volume lettered "Papers and Pamphlets on Submarine Telegraphs*, 1857-61.")

**Nordisches Archiv. für d. Natur. u. Arzeneiwissenschaft.** (*Vide* Pfaff and others.)

**Norman,** Robert.

(*Note.—No authentic account discoverable. His first dipping needle was made in* 1576. *Vide his "New Attractive."*)

The Newe Attractive, containyng a short discourse of the Magnes or Lodestone, and amongst other his vertues, of a new discovered secret and subtill propertie concernyng the Declinyng of the Needle, touched therewith, under the plaine of the Horizon. Now first found out by Robert Norman, Hydrographer. 4to. (*Black Letter, scarce.*) *London*, 1581

(*Note.—Mr. Latimer Clark has a copy of this work in his collection.*—EDITOR.)

The Newe Attractive . . . newly corrected and amended by M. W. B., 1585. (*From Watt*, p. 709.) *London*, 1585

The New Attractive . . . newly corrected and amended by M. W. B. *London*, 1596

(*Note.—A copy of this edition is in the Royal Society.*—ED.)

The New Attractive, with the application thereof for finding the true variation of the Compass, by W. Burrowes. (*Vide* Borough, W.) 4to. (*From Libri's Sale Cat.* 573.) *London*, 1614

† The New Attractive: shewing the nature, propertie, and manifold vertues of the Loddstone; with the declination of the Needle, touched therewith, under the plaine of the Horizon. Found out and discovered by Robert Norman. Reprinted 1720. 8vo. (*Separately paged and published with Whiston's Longitude.*) *London*, 1720

**Normand.** (*Vide* Le Normand.)

**The North Atlantic Telegraph.** (*Vide* Royal Geographical Society.)

† **Norton,** W. A. On Terrestrial Magnetism. 8vo. 35 pp. (*American Journal*, 2nd series, vol. iv.)

**Nöschel,** A. Über einen interessanten Hagelfall im Kaukasus beobachtet. 8vo. (*Mélanges phys. et chim. tirés du Bull. de l'Acad. Imp. de St. Pétersbourg*, tom. v. *Livraison* 6 *et dernière*, pp. 658 and 660. 1 plate lith.) *St. Petersburg, Riga, and Leipzig*, 1861-4

**Noton**, B. Register of the Pluviometer at Bombay, in the year 1828. 8vo. 1 page. (*Phil. Mag. or Annals* vii. 14.) *London*, 1830

† **Nougarede de Fayet.** De l'Electricité dans ses rapports avec la Lumière, la Chaleur, &c. 8vo. 112 pp. *Paris*, 1839

**Novelle di Firenze.** Novelle letterarie pubblicate in Firenze. (Lami, Dr. G., Editor.) 37 vols. 4to. 1740-76.

**Novellucci.** His Electric Plate Machine described by the Marq. Ridolfi. (*Vide Antologia di Firenze*, Agosto, 1824, p. 159.)

**Noya-Caraffa**, Giovanni Duc de. *Born* 1715, *at Naples; died July* 8, 1768, *at Naples.*

Lettre sur la Tourmaline à Buffon. 4to. 35 pp. 1 plate. (*Vide Priestley, Hist.* 5th edition, p. 271, *who says the Letter was presented to the Royal Society, and refers to Phil. Trans.* li. pt. i. p. 396.) *Paris*, 1759

† **Nuneberg.** Osservazioni su gli effetti dell' elettricità nella vegetazione. 12mo. 3 pp. (*Scelta d' Opuscoli*, xvii. 113.) *Milano*, 1776

† **Nuova Scelta d'Opuscoli.** Interessante sulle scienze. 2 vols. 4to. (*All the Elect. Articles are in the Library.*)

**Nuovo Cimento**, Giornale di Fisica, Chimica, &c. Direttori (dei vol. i. a x.) C. Matteucci e R. Piria (dei vol. xi. a —) C. Matteucci, R. Piria, et G. Meneghini. 8vo. *Torino and Pisa*, 1855 *to* —

(*Nots.—58 numbers of various dates between* 1855 *and* 1864 *are in the Library.*) (*Faraday's copy, with notes by him.*)

**Nyerup** and **Kraft.** Almindeligt Litteratur-lexicon for Danmark, Norge, og Island, &c. 4to. *Kiobenhaven*, 1820

**Nyevelt.** (*Vide* Zuylen van Nyevelt.)

**Nysten**, Pierre Hubert. *Born October* 30, 1771, *at Lüttich; died March* 3, 1818, *at Paris.*

Article, Electricité et Galvanisme, in the Dictionnaire des Sciences Médicales, published by him and Hallé.

† Nouvelles expériences galvaniques sur les organes musculaires de l'homme et des animaux à sang rouge. 8vo. 144 pp. *Paris and Strasbourg*, 1803

† Neue an den muskulösen Organen des Menschen und rothblutiger Thiere angestellte galvanische Versuche. Aus dem Französischen von C. F. Dorner. 8vo. 104 pp. Table. *Tubingen*, 1804

† Recherches de Physiologie pour faire suite à celles de Bichat sur la vie et la mort. 8vo. 427 pp. *Paris*, 1811

**Nystrom**, C. A. Rechen-Aufgaben aus der Elektricitätslehre, besonders fur Telegraphen-Beamte. 8vo. *Berlin*, 1862

# O.

† **Oberbeck**, A. Über die sogenannte Magnetisirungs-constante. Inaugural Dissertation. 8vo. 40 pp. 2 plates. *Berlin*, 1868

† **Obermayer**, A. von. Experimentelle Bestimmung des Leitungswiderstandes in Platin-Blechen. 8vo. 16 pp. 1 plate. (*Sitzb. d. K. Akad. d. Wissensch.* ii. Abth. Juli, 1869, lx. Bde.) *Wien*, 1869

Über die Anwendung eines Elektromotors zur stroboskopichen Bestimmung der Tonhöhe. 8vo. *Wien*, 1871

† **O'Connell**, A. On the action of Voltaic Electricity in pyroxylic spirit, and the solutions in water, alcohol, and æther. 4to. 28 pp. 1 plate. (*Trans. R. Soc. Edinb.* xiv. pt. 1.) *Edinburgh*, 1837

**Oersted**, Hans Christian. *Born August* 14, 1777, *at Rudkjöbing, of Langeland; died March* 9, 1851, *at Copenhagen.*

Beschreibung einer Galvanischen Batterie ohne Platten. 8vo. 6 pp. (*Voight's Mag.* iii. 412.)

(*Note.—Sue*, iv. 263, *says Oerstɔd in Voight's Magazine*, iii. B. p. 412: "*Novus Apparatus per amalgamata et liquores solventes.*" *Seyfer*, p. 126, *refers to Voight's Mag. and gives a description of Oersted's Exper. but not the title of Oersted's Paper on Voight.*) *Weimar*, 1801

Ansicht der chemischen Naturgesetze. *Berlin*, 1802

(*From Dove*, p. 218. *Pfaff says* 1812; *Heinsius says* 1812 (*Raelschulb*, i. 12). *Poggendorf adds*: "*Durch d' neueren Entdeckungen gewonnen*," 1812; *and* "*Franzosisch von Marcel de Serres, Paris*, 1813." *This work has a very different title. The date* 1802 *is one of Dove's numerous blunders.*)

Suite des expériences de M. Ritter sur les phénomènes galvaniques, communiquée par M. Oersted. 4to. (*Bull. de la Soc. Philomatique*, No. lxvii. an. xi. p. 128. *Also in Journ. de Phys. and in Journ. du Galv.*) *Paris*, 1803

Materialien für einer Chemie des Neunzehnten Jahrhunderts. 1 Stück. *Regensburg*, 1803

Description d' une battérie galvanique sans plaques. 8vo. (*Journ. de Chim. de Van Mons*, No. iv. p. 68.) *Bruxelles*

Suite des expériences de J. G. Ritter à Jena sur les phénomènes galvaniques. (*Philomath. An.* 11, p. 128.) *Paris*, 1803

Galvanochemische Bemerkk. 8vo. (*Gehlen, N. Journ.* iii. 1804.) 1804

Om Overeestemmelsen imellem de electriske Figurer og de organiske Former. (*Skandinav. Literatur-Selskabs Skrifter*, vol. i. 1805.) 1805

† Chemico-Galvanic Observations. 8vo. 2 pp. (*Phil. Mag.* xxiii. 129.) *London*, 1806

Forsög i Anledning af nogle Steder i Winterl's Skrifter. 8vo. (*Nyt Biblioth. f. Physik, etc.* ix. *auch Gehlen's Journ. f. Chem.* i. 1806.) *Kiobenhaven*, 1806?

Über Ritter's Ladungssäule u. ein neues Metallthermometer. 8vo. (*Gehlen, N. Journ.* vi. 1806.) 1806

*† Gesammelte Schriften, deutsch von Kannegiesser. 6 vols. (*Portrait.*) *Leipzig*

Über Simon's neues Gesetz für elektr. Atmosphärenwirkung. 8vo. (*Gehlen's N. Journ.* viii. 1808.) 1808

† Ansicht der chemischen Naturgesetze durch d. neueren Entdeckungen gewonnen. 8vo. 1 plate. 298 pp. (*Vide following for translation by Marcel de Serres.*) (*He refers in the Introduction to several other previous works of his, in Gehlen's Journal, the Journal de Phys. &c.*) *Berlin*, 1812

† Recherches sur l'identité des forces chimiques et électriques. Traduit de l'Allemand par Marcel de Serres. 8vo. 258 pp. 1 plate. *Paris*, 1813

**Oersted**, Hans Christian.—*continued.*

Loven for de elektriske Virkningers Svækkelse ved Afstanden. 4to. (*Oversigt over det Kongl. danske Videnskabernes Selskabs Forhandlinger*, 1814-15.) *Kiobenhaven*, 1814-15

Über Contact-Elektrisität. (*Schweigg. Journ.* xx. 1817.) *Nürnberg*, 1817

† Experimenta circa effectum conflictus electrici in acum magneticam. 4to. 4 pp. *Hafniæ*, 1820

Neuere elektromagnet. Versuche. 8vo. (*Schweigg. Journ.* xxix. 1820.) *Nürnberg*, 1820

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(*Vide* also Anon. Elect. 1821.)

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† **Oettingen, A. Von.** Über das Laden d. Leidener Batterie durch Induction, und über die Entladung der Batterie durch das Inductorium. 4to. 26 pp. 1 plate. *Dorpat*, 1862

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Bestimm. des Gesetzes, nach welchem die Metalle die Contact-Elektricität leiten, nebst einem Entwurfe zu einer Theorie des Voltaischen Apparats. 8vo. (*Schweigg. Journ.* xlvi. 1826.) *Nürnberg*, 1826
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† Grundzüge der Physik als Compendium zu seinen Vorlesungen. 1 Abtheilung: Allgemeine Physik. 8vo. 193 pp. *Nürnberg*, 1853

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† Denkrede auf die Akademiker Dr. T. Siber und Dr. Georg Simon Ohm im Auszuge vergetragen . . . von Dr. Lamont. 4to. 36 pp. *München*, 1855

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Théorie mathématique des Courants électriques. Traduction. Préface et Notes de J. M. Gaugain. 8vo. 202 pp. *Paris*, 1860

† **Ollers** — (of Bremen). Letter from . . . to Baron Von Zach on the Stones which have fallen from the Heavens. (*From Algemeene Konst en Letter Bode*, "No. 17, 1803.") 8vo. 5 pp. (*Phil. Mag.* xv. 289.) *London*, 1803

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† **Oliver,** A. (Salem). A Theory of Lightning and Thunder Storms. 4to. 28 pp. (*Trans. Amer. Phil. Soc.* Old Series, ii. p. 74.) *Philadelphia*, 1786

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**Olmsted,** Denison. *Born June* 18, 1791, *at East Hartford, Connecticut; died May* 13, 1859, *at New Haven.*

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† Traité de l'Electricité médicale. 8vo. 802 pp. 141 engravings. *Paris*, 1872

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(*Nearly all the Electrical articles are in the Library.*)

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† Regole pratiche da seguitarsi per armare le campagne contro alla Grandine in supplemento alla Dissertazione . . . Lette il 13 Maggio, 1824, alla Soc. Agraria di Bologna. 8vo. 16 pp. *Bologna*, 1824

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† Brevi considerazioni sulla risposta dell' . . Acad. Rle. delle Scienze di Parigi a sua Eccell. il Ministro dell' Interno in Francia intorno i Paragrandini; con un' Appendice. 8vo. 24 pp. *Bologna*, 1826

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† **Orlebar, A. B.** Observations made at the Magnetical and Meteorological Observatory at Bombay, April to December, 1845, and printed by order of the . . . East India Company, under the superintendence of A. B. Orlebar. Fol. 276 + 73 pp. 13 plates. *Bombay*, 1846

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**Orosius, P.** *Born in the 5th century.*

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† **Orsolato, G.** Sopra alcuni getti di luce provenienti dai calici dei fiori del Tropeolum majus. Lettera al Fusinieri. 4to. 5 pp. (*Ann. . . . del Reg. Lomb. Veneto*, xiv. 35.) *Vicenza*, 1845

† **Osann, Gottfried Wilhelm.** *Born October* 26, 1797, *at Weimar.*

Dissertatio de natura affinitatis chimicæ. 4to. (*From Heinsius.*) *Jena*, 1822

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† Grundzüge der Lehre von dem Magnetismus und der Elektricität. 8vo. 183 pp. *Würzburg*, 1847

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† Die Kohlenbatterie in verbesserter Form. 8vo. 24 pp. *Erlangen*, 1857

**O'Shaughnessy, W. B.** Account of the Electric Telegraph. Full and precise practical instructions for the Construction of Lines. 8vo. *London*, 1853

† First report on the operations of the Electric Telegraph Department in India, from 1st February, 1855, to 31st January, 1856. Fol. 79 pp. 24 plates. 1856

**Ostertag**, Johann Philipp. *Born May* 29, 1734, *at Idstein, Nassau-Weilburg; died November* 24, 1801, *at Regensburg.*

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De auspiciis et acuminibus. (*From Martin.*) *Ratisbonne*, 1779

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**Ovid.** Metam. lib. 3, fast. v. Numa and Jupiter Elicius. (*Vide* Dutens, p. 150.) A.D. 17

**Owen.** (*Vide* Calamai and others.)

† **Owsjannikow**, Ph. Ein Beitrag zur Kenntniss der Leuchtorgane von Lampyris-Noctiluca. 4to. 11 pp. 1 plate. (*Mems. de l'Acad. Imp. des Sciences de St. Petersb.* vii. série. tom. xi. No. 17.) *Leipzig and St. Petersburg*, 1868

**Ozanam**, Jacques. *Born* 1640, *at Bouligneux, near Villars in Bresse; died April* 3, 1717, *at Paris.*

Recreations, &c. 4 vols. 8vo. (Several editions.) *Paris*, 1724
(*Note.*—*Poggendorff*, ii. 341, *says* 2 vols. 8vo. *Paris*, 1694; *Nouv. ed.* 4 vols. 8vo. *Id.* 1724. *Von Montuela*, 4 vols. 8vo. 1778. *Von Hutton*, 4 vols. 8vo. 1803.)

# P.

**Pacchiani,** Francesco Giuseppe. *Born October* 4, 1771, *at Prato; died March* 31, 1835, *at Florence.*

Nuovi esperimenti sul proposito della decomposizione dell' acqua relativamente al polo positivo e negativo della pila del Volta, etc. (*Letta alla Soc. dei Georgofoli di Firenze*, Settembre, 1804.) **1804**

Osservazioni tendenti a provare non esser vera la proprietà comunemente creduta inerente al polo positivo della colonna elettrica del Volta cioé di svilluppare dall' acqua l'ossigeno, ne tampoco la contraria inerente al polo negativo di svilluppare l'idrogeno. . . (*Letta alla Soc. dei Georgofili di Firenze*, Aug. 1804.) *Firenze*, **1804** (f)

† Sull' acido muriatico ottenuto per l'azione della pila Voltiana. Estratto di varie lettere su questo argomento pubblicate. 4to. 9 pp. (*Nuova Scelta d' Opuscoli*, i. 277.) *Milano*, **1804**

† Tre Lettere (sopra l'Acido muriatico)—
(1) al Pignotti (data) Pisa, 9 Maggio, 1805, 12 pp.
(2) al Fabbroni ,, Pisa, 10 Giugno, 1805, 14 pp.
(3) al ,, ,, Firenze, 9 Luglio, 1805, 14 pp. 8vo. 40 pp. **1805**

† Lettera sopra i principi costituenti dell' ossimuriatico (al Pignotti).
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Lettera 3da. del medesimo. 8vo. 32 pp. (*Ann. Chim. di Brugnatelli*, xxii. pp. 125, 134, 144.) *Pavia*, **1805**

† "Letter . . to Laurence Pignotti," dated Pisa, May 9, 1805. 8vo. 5 pp. (*Phil. Mag.* xxii. 179.) *London*, **1805**
(*Note.—This is a translation of the first of the three letters, and is copied from No.* 3 *of the Edinb. Med. and Surg. Journal of the* 1*st July*, 1805. *It concerns the supposed "formation of Muriatic Acid by Galvanism," and is accompanied by short remarks by the Editors of the Edinb. Med. and Surg. Journal.*)

† Extract of a New Letter of Dr. Francis Pacchiani, Professor of Natural Philosophy in the University of Pisa, to M. Fabbroni, upon the Composition of the Muriatic Acid. 8vo. 5 pp. (*Phil. Mag.* xxiv. 176.) *London*, **1806**
(*Note.— This is a translation of the second of the three letters* (*not quite complete*), *first into French and then into English.*)

**Pacini** (di Pistoja). Nuovi organi scoperti nel corpo umano. (*From Beckensteiner's Trans. of Henlé and Kalliker's Corpuscules de Pacini*, p. 27.) **1840**

† **Pacini,** F. Sopra l'Organo elettrico del Siluro elettrico del Nilo . . 8vo. 23 pp. 1 plate. (*Annali delle Scienze Naturali Luglio*, 1846. *Letta all' Acad. . . di Bologna*, March 26, 1846.) (*Arago's copy.*) *Bologna*, **1846**

† Sulla struttura intima dell' Organo elettrico del Gimnoto e di altri pesci elettrici . . 8vo. 35 pp. (*Letta alle R. Accad. dei Georgofili* . . 19 Settemb. 1852.) *Firenze*, **1852**

† **Pacinotti,** L. Aurora-boreale (18 Feb. 1837). 8vo. 4 pp. (*Bibliot. Ital.* lxxxv. 462.) *Milano*, **1837**

**Padua Accad.** Saggi scientifici e letterarj dell' Accad. di Padova. 3 vols. 4to. tom. i. 1786, ii. 1789, iii. 1794. *Padova*, **1786-94**

Memorie dell' Accademia di Scienze, Lettere, ed Arti di Padova. 4to. (1 vol. only). *Padova*, **1809**
(*This has been called also un Saggio. It contains no Mem. on Electrical matter.*)

Nuovi Saggi della Cesareo-Regia Accademia di Scienze, Lettere ed Arti di Padova. 6 vols. 4to. (Tom. i. 1817, ii. 1825, iii. 1831, iv. 1838, v. 1840, vi. 1847.) *Padova*, **1817-47**

**Padua Accad.**—*continued.*

Rivista Periodica dei Lavori della I. R. Accademia di Scienze ed Arti di Padova. Redattore G. F. Sponga. 8vo. (About 8 vols. printed up to 1860.) *Padova*, 1852 *to* —

Catalogo dei Libri esistenti presso l'I. R. Accademia di Scienze, Lettere ed Arti di Padova. MSS. *Padova*, 1853

**Pagani**, O. M. Aggiunta alla storia del Sonnambulo publicata dal Sig. Dott. G. Pigati, col racconto della di lui guarigione, per mezzo della virtù elettrica. 8vo. 14 pp. (*From Zaccaria, Storia*, iii. 267.) *Vicenza*, 1751

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† Météorologie. Des caractères physiques des Eclairs en Boules et de leur affinité avec l'état sphéroidal de la matière. 8vo. 7 pp. (*Ext. du Journal La Science*, No. du 7 Juin.) *Paris*, 1855

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**Pohl,** Georg Friedrich. *Born February* 24, 1788, *at Stettin; died June* 10, 1849, *at Breslau.*

Über d. Zusammenhang d. Magnetismus mit d. Elektricität u.d. Chemismus. 8vo. (*Gilb. Ann.* lxix. 1821, und lxxi.) *Leipzig,* **1821**

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Versuche über d. Einwirk d. Erdmagnetismus auf bewegliche Elektromagnete, u.s.w. 8vo. (*Gilb. Ann.* lxxiv. u. lxxv. 1823.) *Leipzig,* **1823**

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Tentamen . . . phænom. electricitatis. Editio alter. 8vo. *Pragæ*, 1750

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**Poisson,** Siméon Denis. *Born June* 21, 1781, *at Pithiviers, Dép. Loiret; died April* 25, 1840, *at Paris.*

Observations sur les substances minérales que l'on suppose tombées du ciel sur la terre. 4to. (*Société Philomathique*, 11, p. 180, 1803.) *Paris*, 1803

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Solution d'un problème relatif au Magnétisme terrestre; avec un Préambule. 4to. (*Bulletin de la Soc. Philomat.* 1825, p. 82, and 1826, p. 19.) *Paris*, 1825-6

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Mém. sur les déviations de la boussole produites par le fer des vaisseaux. 4to. (*Paris Acad.* 1840.) *Paris*, 1840

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† Cat. de ses ouvrages et mém. scientifiques. 4to. 28 pp. *Paris*, 1815

† **Poisson, Gay-Lussac,** &c. Instruction sur les Paratonnerres, adoptée par l'Acad. 23 April, 1823. Publié par ordre du Ministre de l'Intérieur. 8vo. 51 pp. 2 plates. *Paris*, 1824

† Anleitung zur Verfertigung und Benutzung der Blitzableiter. 8vo. 43 pp. 2 plates. (*Translation, without name of Translator.*) *Strasbourg*, 1824

**Poissonnier** Pierre Isaac. *Born July* 5, 1720, *at Dijon; died September* 15, 1798, *at Paris.*

† **Poissonnier** et Cæteri. Rapport des Commissaires de la Société Royale de Médecine nommés par le Roi pour faire l'examen du Magnétisme animal. 4to. 39 pp.
(*Note.—Poissonnier, Caille, Mauduit, and Andry. They refer to Paracelsus, Van Helmont, Goclenius, Maxwell, &c.*, p. 3.) *Paris*, 1784

**Polansky,** Thaddäus. *Born March* 13, 1713, *at Hradisch Mähren; died October* 12, 1770, *at Olmütz.*

† Dissertatio physico-experimentalis . . de tonitruo, fulgore, seu corruscatione contra sensa et opiniones antiperipateticorum. 12mo. 156 pp. 1 plate. *Olomucii*, 1747

† **Polcastro,** G. B. Notizia sopra la conversione dal . . Pacchiani, dell' acqua in acido muriatico ossigenato, per mezzo del fluido galvanico o idrometallico . . alli Redattori . . 8vo. 8 pp. (*Giorn. Ital. Letter. del Dal Rio*, x. 182.) *Padova*, 1805

**Poleni,** G. (il Marchese). *Born August* 23, 1683, *at Venice; died December* 22, 1761, *at Padua.*

Dissertatio de barometris, &c. (die erste in dessen *Miscellaneis.*) 4to. *Venetiis*, 1709

**'oleni,** J. Observatio Auroræ borealis visæ nocte insequente diem 16 Decembris, anno 1737, habita Patavii ab T. P. . . 4to. 8 pp. *Patavii*, 1738

Observatio Auroræ borealis, visæ . . 16 Decembris, anno 1737, habita Patavii. 12mo. 13 pp. (*Calogera, Raccolta d' Opuscoli*, vol. xvii. p. 1.) (*See above.*) *Venezia*, 1738

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**'olettini,** L. Le meraviglie della Telegrafia elettrica, ossia Telegrafo elettromagnetico Americano . . Opera di Alf. Vail . . tradotta dall' Inglese al Francese da Ipp. Valtemare e voltata in Italiano de L. Polettini: con Note, &c. La. 8vo. or 4to. 169 pp. 5 plates (in 2 parts.) *Verona*, 1850

**'oli,** Giuseppe Saverio. *Born October* 24, 1746, *at Molfetta; died April* 7, 1825, *at Naples.*

La formazione del Tuono, della Folgore, &c. . . 8vo. 152 pp. *Napoli*, 1772

Riflessioni intorno agli effetti di alcuni fulmini. 8vo. 148 pp. *Napoli*, 1773
(*Note.—He says that it may be considered as an Appendix to his "La formazione del Tuono."*)

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Osservazioni fisiche concernenti l'elettricità, il magnetismo e il folgore. 4to. (*Atti dell' Accad. di Napoli*, 1787, pp. 169-195, *on Velocity, pr. in* 1788, 10*th Mem.*) *Napoli*, 1787

Elementi de Fisica. 5 vols. 8vo. *Napoli*, 1802
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Saggio sulla calamita e sulle sue virtù medicinali. *Palermo*, 1811

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(*Note.—There are other editions, Naples, &c.*)

**'olidori,** Luigi Eustachio. *Born at Bientina, near Pisa; died May* 29, 1830, *at Pisa.*

Dissertazione sul terremoto. 8vo. 24 pp. (*Ann. di Chim. di Brugnatelli*, v. 30.) *Pavia*, 1794

**'oligrafo, Il.** Giornale di Scienze, Lettere ed Arti. About 60 vols. 8vo. *Verona*, 1830-1847
(*Note.—Many of the Electrical Articles are in the Library.*)

**'olinière,** Pierre. *Born September* 8, 1671, *at Coulonces, near Vire* (*Calvados*); *died February* 9, 1734, *at Paris.*

Expériences de Physique. 1st edition. 12mo. 508 pp. 10 plates. *Paris*, 1709

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**'olli,** G. ed altri. Esame di un opuscolo di Linati e Coggiati sopra gli effetti dell' elettricità sulle funzioni del gran simpatico. Osservazioni relative di Porta e Magrini. 4to. 2 pp. (*Atti dell' I. R. Istit. Lomb.* i. 294.) *Milano*, 1858

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**'ollini.** Sul passaggio del Fulmine che nel . . 6 Agosto, 1795 . . . scoppiò nel . . Tempio di S. Andrea in Vercelli, e sugli effetti . . 8vo. *Vercelli*, 1796

† **Pollock,** T. An attempt to explain the Phenomena of Heat, Electricity, Galvanism, Magnetism, &c. . . . 8vo. 158 pp. Cuts. *London*, 1832

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† **Polytechnische Bibliothek.** Monatliches Verzeichniss der in Deutschland und dem Ausland neu erschienen en Werke aus den Fächern der Mathematik u. Astronomie, der Physik u. Chemie u.s.w. Mit Inhaltsangebe der wichtigsten Fachzeitschriften. Jeden Monat ersch. eine Nummer. 1866-9

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**Poncelet.** *Born at Verdun.*

† La nature dans la formation du Tonnerre, &c. 8vo. 172 pp. and 148 pp. 3 plates. *Paris*, 1766

**Pongracz,** Anton L. B. (*Vide* Bauer, Fulgentius.)

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† Riassunto generale di Telegrafia elettrica. 8vo. 358 pp. 4 plates. *Milano*, 1854

† **Ponton d'Amécourt.** Exposé du Galvanisme. 8vo. 46 pp. *Paris*, 1803

**Pope,** F. L. Modern Practice of the Electric Telegraph. 8vo. 1870

† **Pope,** W. The Triumphal Chariot of Friction ; or, a familiar elucidation of the origin of Magnetic Attraction, &c. 4to. 106 pp. 11 plates. *London*, 1829

**Poppe,** Adolph. *Born January* 11, 1814, *at Frankfurt-a.-M.*

Die Telegraphie von ihrem Ursprunge bis zur neuesten Zeit. 8vo. *Frankfurt-a.-M.* 1848

Chronologische Übersicht der Erfindungen und Entdeckungen auf dem Gebiete der Physik, Chemie, Astronomie, Mechanik und industriellen Technik von den ältesten Zeiten bis auf unsere Tage. 8vo. 68 pp. *Frankfurt*, 1856

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**Reinhold,** Johann Christoph Leopold. *Born* 1769, *at Leipzig; died November* 28, 1809, *at Leipzig.*

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† **Renard**, N. A. Sur la propagation de l'électricité. 8vo. 20 pp. *Nancy*, 1859

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† Beobachtungen während der Nordlichter am 18 October und 17 November, 1848. 8vo. 16 pp. (*Sitzungsberichte d. Wien Acad.* v. 1849, p. 133.) *Wien*, 1849

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† Über das magnetische Observatorium in Kremsmünster und die aus den Beobachtungen bis zum Schlusse des Jahres 1850 gewonnenten Resultate. Vorgelegt in der Sitzung. d. Mathem.-Naturw. Classe am 22 Mai, 1852. 4to. 56 pp. 9 plates. *Wien*, 1854

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† Sopra l'azione che le calamite esercitano all' esterno delle spirali. Esperimenti ed Osservazioni. 4to. 12 pp. (*Ann. del Reg. Lomb.-Veneto*, iv. 20.) *Padova*, 1834

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† Nuova proprietà delle correnti magneto-elettriche. 8vo. 3 pp. (*Bibl. Ital.* lxxiv. 305.) *Milano*, 1834

† Elettroscopio dinamico universale del Zamboni.

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**Reuss**, Jeremias David. *Born July* 30, 1750, *at Rendsburg; died December* 15, 1837, *at Göttingen.*

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† **Revillas**, D. Observatio Auroræ Borealis Romæ visæ die 16 Dec. 1737. 12mo. 8 pp. (*Calogera, Raccolta*, xvii. 39.) *Venezia*, 1738

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† **Reynaud**, J. J. De la Télégraphie électrique. Resumé historique des divers systèmes de télégraphie . . suivi de la Législation. 8vo. 43 pp. *Marseille*, 1851

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† **Reynolds,** J. R. Lectures on the Clinical Uses of Electricity. Delivered in University College Hospital. 8vo. *London*, 1872

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† **Rhind,** W. G. The Magnet the Life of the Mariner's Compass. 8vo. 24 pp. Plate. *London*, 1853

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† **Ribright,** T. A curious collection of Experiments to be performed on the Electrical Machines of Thomas Ribright. 2nd Ed. enlarged and improved. 8vo. 24 pp. 2 plates. *London*, 1788

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**Richard,** Rudolph. *Born July* 6, 1763, *at Rosenwinkel, near Kyritz Priegnitz; died July* 29, 1798, *at Berlin.*

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† **Richardot,** C. Nouveaux appareil contre le danger de la Foudre et le fléau de la Grêle. 8vo. 44 pp. *Paris*, 1825

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Experiences, observations et résumé sur le galvanisme. Note. 8vo. (*Mém. de la Soc. Méd. d'émulation*, iii. 311.) *Paris, about* 1802

† **Richers,** J. Der Magnetismus, der Galvanismus, und die Electricität. 8vo. 416 pp. *Leipzig*, 1850

**Richie.** (*Vide* Anon. Electricity, 1830.)

**Richman,** George William. *Born July* 11, 1711, *at Pernau, Livland; died July* 26, 1753, *at St. Petersburg.*

† De electricitate in corporibus producenda nova tentamina. 4to. 25 pp. 1 plate. (*Comment. Acad. Scient. Petrop.* xiv. pro. 1744-46, imp. 1751, pp. 23 et 301.) *Petropoli*, 1744-46

† De virtute magnetica absque magnete communicata, experimenta. 4to. 6 pp. plate. (*Novi Comment. Acad. Petrop.* iv. pro 1752-3, imp. 1758, pp. 25 et 235.) *Petropoli*, 1752-3

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**Richter.** Georg Friedrich. *Born October* 26, 1691, *at Schneeberg; died June* 23, 1742, *at Leipzig.*

† De natalibus fulminum. Tractatus physicus. Accedit appendix qua litteræ et observationes quædam huc pertinentes, Maffei, Lionii, Pagliarini, aliorumque continentur. Sm. 8vo. 12 pp. *Leipzig*, 1725

(*Note.—The letter of Maffei is that to Vallisnieri* (*from Padua*) *printed in the "Della Formazione del Fulmine."*)

† **Richter** u. **Erdman.** IV. Bericht über medicinische Elektricität. 4to. 23 pp. (*Med. Jahrbb.* xciv. 97.) *Dresden*

(*Vide* also Erdman and Richter.)

† **Rico-y-Sinobas,** Don M. Memoria sobre las causas meteorológicofisicas que producen las constantes sequias de Murcia y Almerya. . . . 4to. 391 pp. 9 plates. *Madrid*, 1851

† Noticia sobre las Auroras Boreales observadas en España durante el siglo xviii. y parte del xix. 4to. 15 pp. (*Memorias de la Real Acad. de Ciencias, Madrid*, tom. iii. ?) *Madrid*, 1853

† Estudio del Huracan que pasó sobre una parte de la peninsula Española el dia 29 de Octubre de 1842. 4to. 31 pp. 1 plate (i.e. map). (*Memorias de la Real Acad. de Ciencias, Madrid*, iii. 45 (?). *Madrid*, 1856

(*Note.—At the end "Valladolid*, 27 *de Mayo*, 1853.")

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† Discurso que sobre los fenómenos de la electricidad atmosférica leyò el Sr. D. Manuel Rico y Sinobas. . . . en la Real Acad. de Ciencias. (*Read in the Madrid Academy.*) 4to. 71 pp. *Madrid*, 1858

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† **Ricoby,** H. de. Mémoire sur mes travaux electro-chimiques. 8vo. 63 pp. *Paris*, 1851

† **Riddel** (Lieut.) C. J. B. Magnetical Instructions for the use of portable instruments . . for Magnetical Surveys and portable Observatories, and for the use of . . small instruments . . for a fixed Magnetical Observatory, with Forms for . . . Observatories. 8vo. 146 pp. *London*, 1844

† Supplement to the Magnetical Instructions, &c. 8vo. 22 pp. *London*, 1846

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† **Ridley,** M. A short Treatise of Magnetical Bodies and Motions. Sm. 4to. 157 pp. Engraved title-page and portrait. *London*, 1613

Animadversions on a Work, &c. 4to. (*From Watt.*) *London*, 1617

**Ridolfi,** C. (Marchese). Pensieri intorno ai singolari fenomeni elettro-magnetici. *Firenze*, 1821

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† Lettera al Taddei intorno di nuovi fenomeni elettro-magnetici, (dated) Firenze 1o Ottob. 1821. 8vo. 5 pp. (*Estratta dall' Antologia.*) *Firenze*, 1821

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† Lettera . . . al Direttore di questi Annali sopra le scintille elettriche prodotte dal magnetismo. 4to. 2 pp. (*Ann. del Reg. Lomb.-Veneto*, ii. 113.) *Padova*, 1832

† Riflessioni sulle Osservazioni e fatti risguardanti i fenomeni elettro-magnetici del Gazzeri. 8vo. 14 pp.

**Riecke,** Fried. J. P. *Born* 1794.

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† **Robison,** J. and **Brewster.** A System of Mechanical Philosophy, with Notes by D. Brewster. 4 vols. and 1 vol. of plates. 8vo. *London and Edinburgh*, 1822

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**Roiffé.** (*Vide* Perrière de Roiffé.)

† **Rollmann**, W. Die Thermoelektricität. 4to. 38 pp. *Stralsund*, **1859**

**Roloff**, J. F. Die Mechanik des Elektromagnetismus, ihren Grundbegriffen nach entwickelt; so wie mehrere neue elektromagnetische Maschinen und Apparate, um den Elektromagnetismus als Triebkraft für Mühlen, Uhren, Telegraphen etc. anzuwenden. 4to. 24 pp. 1 plate. (*From Zuchold's Cat.* 1851, p. 91.) *Berlin*, **1851**

Die Mechanik des Elektromagnetismus, ihren Grundbegriffen nach entwickelt. 2 Auflage. 4to. 32 pp. 2 plates. (*From Zuchold's Cat.* 1859, p. 76.) **1859**

† Der Elektromagnetismus insbesondere als Triebkraft; sowie mehrere neue elektromagnetische Maschinen, Wagen und Locomotiven. 8vo. 192 pp. 8 plates. *Berlin*, **1868**

(*Note.—The first (or short) title-page contains the following titles of work by him: "Der Electromagnetismus," "Die Mechanik des Electromagnetismus,"* 3 Auflage, *"Die Maschinenlehre des Electromagnetismus."*)

**Romagnosi**, Gian Domenico. *Born December* 13, 1761, *at Salso Maggiore, near Piacenza; died June* 8, 1835, *at Milan.*

Articolo sul Galvanismo. (*Gazzetta di Trento*, 3 Aug. 1802.) *Trento*, **1802**

(*Note.—Govi gives, at p.* 8, *the Article in full (with comments), and refers to the probability of it having appeared in the contemporaneous periodical at Roveredo (if this is not quoted in error). Govi's remarks, &c. are very good, and contain abundant evidence against magnetic action of the column on the Magnetic Needle. Romagnosi's experiment was in fact a modification of Milner's as performed with static electricity. (Vide "Milner's Experiments and Observations in Electricity*, 1783. 8vo. p. 35, and fig. 3.") *Milner's instrument, an Electrometer, has been reproduced in a different form by Peltier, as a new invention. Poggendorff*, ii. 682, *refers to other particulars concerning Romagnosi's experiment.*)

Account of his Electromagnetic Observations in the Gazzetta di Trento of the 3rd August, 1802. (*Vide Editor's Review of Zantedeschi's "Saggio" in the Bibl. Ital.* tom. xcviii. p. 60. *They give the account at length, and ascribe (not confidently) the repulsion of the insulated needle after having been touched by the voltaic galvanic iron, to electricity (not to magnetism). This remark of theirs was written in* 1840, *and is the true explanation of Romagnosi's Experiment.*)

(*Vide* also Cantu, C.)

**Romagnosi,** Gian Domenico.—*continued.*

His discovery described in the Gazzetta di Roveredo del 1802, No. 65. (*Vide Amoretti's note attached to an extract from C. Bernouilli's letter in the Nuova Scelta d'Opuscoli*, tom. i. p. 201, 1804.)

Cenni sulla vita di, da De Giorgi.

Biografia di, da Sacchi.

**Roman Accad. dei Nuovi Lincei.** Atti dell' Accad. Pontificia de' Nuovi Lincei. compilati dal Segretario. 4to. Figs. *Roma*, 1854

**Roman Giornale Arcadico.** Giornale Arcadico di Scienze. 4to. *Roma*
(*Note.*—Tom. ix. dated 1821, tom. cxliv. 1856.)

**Romas,** . . . de. *Born beginning of eighteenth century, at Nérac; died* 1776, *at Nérac.*

A Mem. presented to the Acad. de Bordeaux in MS. (*Merget, Etude sur les travaux de Romas, says that the MS. still exists. Romas presented many Mems. to the Acad.*) 1753

Mémoire ou après avoir donné un moyen aisé pour élever fort haut, et à peu de frais, un corps électrisable isolé, un cerf volant, on rapporte des observations frappantes, qui prouvent que plus le corps isolé est élevé au dessus de la terre, plus le feu de l'électricité est abondant. 4to. (*Mém. de Mathém. et de Phys.* ii. p. 393.) *Paris*, 1755

Electrical Experiments made with a Paper Kite, raised to a very considerable height in the air on the 7th June, 1753. 8vo. (*Gentleman's Magazine for* Aug. 1756, p. 378.) *London*, 1756

Sur l'expérience électrique du cerf volant. 4to. (*Mém. de Mathém. et Phys.* iv. 514.) *Paris*, 1763

Account of another Kite. (*Gentleman's Mag. for* Feb. 1763, p. 69.) 1763

† Letter from M. De Romas to the Abbé Nollet containing experiments made with an Electrical Kite. 8vo. (*Gentleman's Mag. for* March, 1764, p. 109.) *London*, 1764

† Mémoire sur les moyens de se garantir de la Foudre dans les maisons; suivi d'une Lettre sur l'invention du Cerf volant électrique, avec les pièces justificatives de cette même lettre. 12mo. 156 pp. 2 plates. *Bordeaux*, 1776

(*The Pièces Justicatives contain testimonials, a certificate of the Bordeaux Acad. &c., which prove that he had invented* (*imaginé*) (*but had not used*) *the Electrical Kite on the 12th July*, 1752. *Merget, Etude sur les travaux de Romas, imputes to Franklin* (*by implication*) *the possibility of having derived the idea from Romas: without foundation, I think.*—F. R.)

**Romershausen,** E. Apparat zur Beobachtung d. atmosphär. Electricität. 8vo. (*Pogg. Ann.* lxix. and lxxxiii.) *Leipzig*, 1846-58

† Antagonismus d. Electricität und des Magnetismus. Erstes Heft. 12mo. 48 pp. 1 plate. *Halle*, 1846

Die magneto-elektrische Rotationsmaschine u. des Stahlmagnet als Heilmittel u.s.w. *Halle*, 1847

Der einfache galvano-elektr. Bogen als Heil. u. Schutzmittel. *Halle*, 1848

† Galvano-electrischer Apparat zur Förderung der Vegetation und Fruchtbarkeit des Bodens, für Land- und Gartenwirthschaft, Kunstgärtnerei und Blumenculture. 8vo. 16 pp. *Marburg*, 1851

Die Heilkräfte d. Elektricität u. Magnetismus. 1 Aufl. *Marburg*, 1851

† Ein neues Galvanometer zur Ergänzung d. Oersted'schen Fundamental Versuchs, &c. . . 8vo. 16 pp. 1 plate. (*Aus Dingler's Polytech. Journal*, Bd. cxvii. Heft 5, *besond. abgedruckt.*) *Stuttgart*, 1852

Die Heilkraft d. Elektricität u. Magnetismus. 2 Aufl. *Marburg*, 1853

† Die Elektricität in Beziehung auf d. Salubrität unseres Wohnortes, &c. . 8vo. 8 pp. (*Aus Dingler's Polytech. Journal*, cxxxi. Heft 1, *besond. abgedruckt. Fortsetzung des Aufsatzes in Polytech. Journal*, Bd. cxxx. S. 193.) *Stuttgart*, 1854

**Romershausen**, E.—*continued.*

† Beobachtungen d. atmosphärisch und terrestrisch. Electricität. 8vo. 8 pp. (*Dingler's Polytech. Journal*, cxxx. Heft 3.) *Stuttgart*, 1854

**Ronalds**, (afterwards Sir) Francis. *Born February* 21, 1788, *at London; died August* 8, 1873, *at Battle, Sussex.*

† On Electricity. 8vo. 4 pp. (*Phil. Mag.* xliv. 442.) *London*, 1814

† Experiments on the Variable Action of the Electric Column. 8vo. 6 pp. (*Phil. Mag.* xliii. 414.) *London*, 1814

† On the Electric Column of M. De Luc. 8vo. 2 pp. (*Phil. Mag.* xlv. 466.) *London*, 1815

† On Electro-Galvanic Agency employed as a Moving Power; with description of a Galvanic Clock. (Dated March 9, 1815.) 8vo. 4 pp. 1 plate. (*Phil. Mag.* xlv. 261.) *London*, 1815

† On correcting the rate of an Electric Clock by a compensation for changes of temperature. 8vo. 2 pp. (*Phil. Mag.* xlvi. 203.) *London*, 1815

† Description of a new mode of Electrical Insulation. 8vo. (*Brande's Quarterly Journal of Science*, ii. 249.) *London*, 1817

† Description of an Electrical Telegraph and of some other Electrical apparatus. 8vo. 83 pp. 8 plates. *London*, 1823

Observations on Atmospheric Electricity, made on Vesuvius in June and July, 1819. 8vo. (*Quarterly Journal Science*, xiv. pp. 332-34.) *London*, 1823

Pendulum Doubler of Electricity. 8vo. (*Edinburgh Phil. Journal*, ix. 1823, pp. 323-25. *Copied from Ronalds'* "*Descriptions of an Electrical Telegraph,*" *&c.*) *Edinburgh*, 1823

† Application of the Photographic Camera to Meteorological Registration (described by Collen). 8vo. 3 pp. 1 plate. (*Phil. Mag.* Series iii. vol. xxviii.) *London*, 1846

On the Meteorological Observations at Kew, with an Account of the Photographic Self-registering Apparatus. 8vo. (*British Association Reports*, 1846, pt. ii. pp. 10—11.) *London*, 1846

(*Note.—A short account of the Electric Registering Apparatus is given in the Berlin Fortschrift d. Phys.* vol. iii. p. 586, *by Buys-Ballot*, 1847.)

† On Photographic Self-registering Meteorological and Magnetical Instruments. 4to. 7 pp. 2 plates. (*Phil. Trans.* part i. for 1847.) *London*, 1847

† Experiments made at the Kew Observatory on a new Kite Apparatus for Meteorological Observations. 8vo. 2 pp. (*Phil. Mag.* series iii. xxxi. 191.) *London*, 1847

† Epitome of the Electro-Meteorological and Magnetical Experiments made at the Kew Observatory under the direction of Francis Ronalds. 8vo. 12 pp. *Chiswick*, 1848

† Telegraphie Electricit. (*Förster's Bauzeitung*, 1848, p. 238.)

† Reports concerning the Kew Observatory for 1843-4, printed in 1845. 8vo. 23 pp. 3 plates. *London*, 1845

† Reports concerning the Kew Observatory for 1848-9, printed in 1850. 8vo. 10 pp. 5 plates. *London*, 1850

† Reports concerning the Kew Observatory for 1849-50, printed in 1850. 8vo. 11 pp. 3 plates. *London*, 1850

Reports concerning the Kew Observatory for 1850-51, printed in 1852. 8vo. 35 pp. 6 plates. *London*, 1852

(*British Association Reports for the above-mentioned years.*)

† Report concerning the Kew Observatory for 1851-52. MS. 17 pp. 1852

† Correspondence and Memoranda on various scientific subjects previous to 1853. Folio. MS.

(*Contains improved bifilar Coulomb. Electrometer, drawing only; Letter to the Astronomer Royal on Electrical Observatory; Reply of the Astronomer Royal; Plan of the Leaden Roof of the Greenwich Observatory; Mr. Weld's Drawing of the Observatory at the Stoneyhurst College, and Francis Ronalds' projected apparatus.*)

**Ronalds,** Sir Francis—*continued.*

† Description de quelques instruments météorol. et magnét. 8vo. 58 pp. 14 plates. *Paris,* 1855

† Barographe Photographique et Thermographe. 8vo. 9 pp. (*Cosmos par Moigno* tom. viii. p. 541. *Extr. from his "Descriptions," with some variations, &c.*) *Paris,* 1856

† Candélabre électrique. (*Cosmos,* viii. 31, Jan. 1856.) *Paris,* 1856

† Correspondence and Memoranda on Mr. Francis Ronalds' Barograph, Thermograph, and Hygrograph; and on Mr. Johnson's and Mr. M. Crook's Apparatus at the Radcliffe Observatory, Oxford; also on Mr. Ronalds' Electro-Atmospherical Apparatus during the period from Feb. 2, 1852, to June 5, 1856. Folio. MS. 1862

† Correspondence on Mr. Francis Ronalds' Atmospherico-Electrical Apparatus; and on Magnetic Instruments at the Madrid Observatory, during the period from August 14, 1851, to April 17, 1855. Folio. MS. 1862

† Correspondence and Memoranda on various scientific subjects from March 8, 1853, to September 2, 1862, during a residence in France, Switzerland, and Italy chiefly. Folio. MS. 1862

*Vide* Silliman, "Principles of Physics," 2nd Edition, 1869, p. 617: "Ronalds published a volume in 1823 . . detailing . . a moveable disk carrying the letters (of his telegraph), *the type of all Dial Telegraphs.*"

† Correspondence and Memorial on the Electric Telegraph in 1816-52-66-67-70; and Extracts relative thereto from Journals in 1866-67-68-70. 4to. MS. &c. *London,* 1870

† Correspondence and Memorial on Self-registering Meteorological Instruments in 1848-49. 4to. MS. *London,* 1870

† Description of an Electric Telegraph. 2nd edition. 8vo. 25 pp. 3 plates. *London,* 1871

(*Vide* also Anon. Magnetism, 1855.)

**Ronayne,** T. and **Henley.** Account of some Observations on Atmospherical Electricity in regard of Fogs, Mists, &c., with some Remarks by William Henley. 4to. (*Phil. Trans.* 1772, p. 137.) *London,* 1772

**Ronconi,** G. B. Delle aeroliti. Discorso inaugurale. 8vo. 40 pp. *Padova,* 1844

**Rönnberg,** Bernhard Hen. Gedanken von d. Ursachen d. Elektricität. 4to. *Wismar,* 1747

† **Ronzoni,** C. Intorno ad alcuni fenomeni del magnetismo. 4to. 14 pp. *Padova,* 1855

**Roorbach,** O. A. Bibliotheca Americana. 8vo. *New York,* 1852

**Roret.** Manuel de l'Electricité.

Manuel de l'Electricité médicale.

Manuel de l'Electricité atmosphérique.

Manuel de l'Electricité. Galvanoplastrie. 2 vols. 8vo.

Manuel de l'Electricité. Télégraphie élect.

**Rose.** (*Vide* Riess and Rose.)

**Rose,** G. Über d. Zusammenhang zwischen d. Form und d. elektr. Polarität d. Krystalle, i. 4to. 2 plates. *Berlin,* 1836?

† **Rose,** Gustav. Beschreibung u. Eintheilung der Meteoriten, auf Grund der Sammlung im mineralogischen Museum zu Berlin. 4to. 139 pp. 4 plates. (*Aus der Abhandl. d. K. Akad. d. Wissen. zu Berlin,* 1863.) *Berlin,* 1864

(*On the back of the title-page is printed "Gelesen in d. Akad. d. Wissensch. am 7 und 14 Aug.* 1862 *und am* 11 *Juni* 1863. *Anfang des Druckes am* 4 *Juli* 1864, *bis wohin einige neue Zusätze hinzugefügt sind. Die Seitenzahl bezeichnet die laufende Pagina des Jahrgangs* 1863 *in den Abhandl. der physikalischen Klasse der Königl. Akad. der Wissenschaften.*")

**Rose,** Heinrich. *Born August* 6, 1795, *at Berlin.*

On Light from Crystallisation. (*Mars. Annales de Chimie,* 1836.)

† **Roseleur,** A. Manipulations hydroplastiques. Guide pratique du Dore l'Argenteur et du Galvanoplaste. 8vo. 90 figures on Galvanoplas text. 308 pp. *Paris,*

† Handbuch der Galvanoplastik oder der hydroelektrischen Metall-Überzie in allen ihren Anwendungsarten. . . Nach dem Französischen. De bearbeitet nach dem heutigen Standpunkt der Wissenschaft von H. W und G. Kaselowsky. 8vo. 228 pp. *Stuttgart,*

Manipulations hydroplastiques. Guide pratique du doreur, de l'argent du galvanoplaste. 2me édition. 8vo. *Paris,*

Galvanic Manipulations. 8vo. (*From the "Athenæum,"* Oct. 12, 1872.)

**Rosenberg,** Abraham Gottlob. *Died* 1764.

Versuche einer Erklärung von den Ursachen der Elektricität. 8vo. 8½ s *Breslau,*

**Rosenschöld.** Artis mensor. electr. fundam. 8vo. *1*

**Rosenschöld.** (*Vide* Munck.)

**Rosenthal,** G. E. Über Verhaltungs regeln bei nahen Donnerwettern. 8vo. ( *tenberg's Mag. f. Phys.* iv. 1786.) *Gotha,*

**Rosenthal,** J. (*Vide* Monatsbericht d. K. Preuss. Acad. d. Wiss. zu Berlin, 1857, p. 640.) *Berlin,*

Ueber den Einfluss höherer Temperaturgrade auf motorische Nerven. 1 (*Med. Central-Zeitung,* 1859, No. 96.)

† Electricitätslehre für Mediciner. 8vo. 185 pp. *Berlin,*

† Die Elektrotherapie, ihre Begründung und Anwendung in der Me Für praktische Aerzte bearbeitet. 8vo. 256 pp. *Wien,*

† Von den elektrischen Erscheinungen. Nach drei im Berliner Handw Verein im April 1866 gehat. Vorträgen. 8vo. 32 pp. (*Sammlung g verstandl. wissenschaftlicher Vorträge.*) *Berlin,*

† Electricitätslehre für Mediciner. 2 Verm und verbessert Auflage. 8vo · engravings. 216 pp. *Berlin,*

† **Rosetti,** F. Sull' uso delle coppie termo-elettriche nella misura delle temper 8vo. 24 pp. 2 plates. (*Estratta dal Nuovo Cimento,* xxvi. Nov. and 1867.) *Padova,*

**Rösler,** Gottlieb Fried. Diss. de cometis, et arcenda exinde electricitate, a plicandum systema mundanum a nonnullis advocata. 4to. *Tubingæ,*

**Rosignol.** Les métaux dans l'antiquité . . suivie d'une Appendice sur les stances appelées Electre. 8vo. *Paris,*

**Rosling,** Chr. Leberecht. Krit. Prüfungen u. Berichtig. d. bisherig Elektri lehre durchgängig auf Experimente gegründet, &c. *Ulm,*

Kritische Prüfungen u. Berichtigungen der bisher Elektricitätslehre. . . 1 plate. *Ulm,*

† Der Galvanismus aus d. Dunkel in d. Licht hervorgezogen. 2 vols. 8v *Ulm,*

† **Rospigliosius,** L. De artificiali electricitate phænomenisque ex ea profluen 4to. 22 pp. *Florentiæ,*

**Ross,** James Clark, Sir. *Born April* 15, 1800, *at London.*

† On the Position of the North Magnetic Pole. 4to. 6 pp. (*Phil. Trans* i. for 1834.) *London,*

Magnetic Observations in the Antarctic Region. 4to. (*Phil. Trans.* 18 *London,*

Notice of the Aurora-Borealis. 4to. (*Phil. Trans.* 1842. *London,*

**Ross**, Sir James Clark.—*continued.*

A Voyage of Discovery and Research in the Southern and Antarctic Regions during the years 1839 to 1843 inclusive. 2 vols. 8vo. *London*, 1847

On the Errors which may be occasioned by disregarding the influence of Solar or Artificial Light on Magnets. 8vo. (*Athenæum*, 1854, p. 1238.) *London*, 1854

**Ross.** (*Vide* Lloyd Sabine and Ross.)

**Ross**, John, Sir. *Born June* 24, 1777, *at Balsarroch, Wigtownshire, Scotland; died August* 30, 1856, *at London.*

An Explanation of Captain Sabine's remarks on the late Voyage of Discovery to Baffin's Bay. 8vo. *London*, 1819

† Letter to Captain Napier from on board the *Isabella* . . . employed in the Northern Expedition, dated off Sugar-Loaf Bay, Davis's Straits, July 12, 1818, lat. 74·2° N. long. 58° W. (*Magnetical Observations at* pp. 307 and 309.) 8vo. 6 pp. (*Phil. Mag.* lii. 305.) *London*, 1818

A Voyage of Discovery made . . 1818, April to November, for the purpose of exploring Baffin's Bay, and inquiring into the probability of a North-West Passage. 2 vols. 8vo. *London*, 1819

Appendix to the Narrative . . of a Second Voyage. 4to. *London*, 1835

**Ross**, J. and J. C. Narrative of a Second Voyage in search of a North-West Passage, and of a residence in the Arctic Regions during the years 1829 to 1833 inclusive, including the reports of J. C. Ross and the Discovery of the Northern Magnetic Pole. 4to. *London*, 1835

**Roffel**, Eliz. Paul E. de. Published (edited) Voyage de M. d'Entrecasteaux envoyé à la recherche de Lapérouse. 2 vols. 4to. *Paris*, 1809

(*Note.—He adds his own observations.*)

† **Rossellini**, F. Riflessioni sopra un Articolo del Fusinieri nel 2o Bimestre (1834) degli Annali delle Scienze del Regno Lombardo-Veneto. 8vo. 6 pp. *Firenze*, 1834

† Sperienze elettro-fisiologiche. 8vo. 7 pp. *Firenze*, 1834

**Rossi**, Francesco. *Died December* 18, 1841, *at Turin.*

Rapports des expériences galvaniques. Le 1er sur les animaux à sang froid, lu . . à Turin le 24 Nivose an 11. Le 2e sur un homme décapité le 23 Nivose et lu le 3 Pluviose. . . Le 3e sur un homme décapité le 2 Pluviose et lu le 3. 4to. (*Bibliot. Ital.* i. 106.) *Turin*, 1803

Rapport des expériences faites sur les animaux à sang chaud et à sang froid; lu à la classe des Sciences exactes, Turin, 24 Nivose, 1803. 4to. *Turin*, 1803

† Extrait d'un Mémoire sur l'application du Galvanisme dans le traitement de quelques maladies. 8vo. 11 pp. (*Bibliot. Ital.* i. 221.) *Turin*, 1803

† Précis de quelques expériences, faites par Julio et Rossi . . . dans le but de découvrir si le fluide galvanique se charge et entraine avec lui, des miasmes putrides. (Publié par Rossi.) 8vo. (*Bibliot. Ital.* ii. 113.) *Turin*, 1803

† Extrait d'observations sur l'usage du Galvanisme dans la cure de l'Hydrophobie. Lu à l'Acad. 3e jour Complim. an 11 (1803). 8vo. 10 pp. (*Bibliot. Ital.* iii. 44.) *Turin*, 1804

† Sur l'électricité animale. Lu le 11 Vent. an 9. 4to. 39 pp. (*Mém. de Turin Ann.* x. et xi. 1802-3.) *Turin*, 1804

† Report of Galvanic Experiments made on Men and Animals. Read to the Academy of Turin by G. Rossi. 8vo. 10 pp. (*Phil. Mag.* xviii. 131.) *London*, 1804

Expériences galvaniques. 4to. (*Mém. de Turin*, xiv. lxxxi. xcii. *Hist.*) *Turin*, 1805

Observations sur l'électricité et sur le galvanisme. 4to. (*Mém. de Turin*, xvi. viii. *Hist.*) *Turin*, 1809

Sur la guérison des enragés au moyen du galvanisme. 4to. (*Mém. de l'Acad. de Turin*, an. 1805-1808; *Sc. Phys. et Mathém. Hist.* p. xi. cf. tom. viii. *Hist.* p. xci.) *Turin*, 1809?

**Rossi**, Francesco.—*continued.*

Expériences galvaniques. 4to. (*Mém. de Turin*, xvi. xii. *Hist.*) *Turin*, 180

† Deuxième Essai sur les Miasmes, avec la description d'un appareil Docimiasmique. Lu 13 Juin 1824. 4to. 16 pp. 1 plate. (*Mem. di Torino*, tom. xxxi. p. 95.) *Torino*, 182

† Rapporto di alcune esperienze sull' Elettricità. 8vo. 11 pp. *Torino*, 1840

† **Rossi et Michelotti.** Expériences sur la décomposition de l'eau par le moyen de la pile de Volta. 4to. 10 pp. (*Mém. de Turin*, an. 1809-10, p. 57, tom. xviii.) *Turin*, 1811

**Rossi**, Gab. Sulla seconda lettera alla continuazione dello Spallanzani. Lettere tre. 8vo. *Bologna*, 1824

**Rossi.** (*Vide* Giulio and Rossi.)

**Rossi.** (*Vide* Julio, &c.)

**Rossi.** (*Vide* Vassalli-Eandi.)

† **Rossijn**, J. Tho. Translation of Cavallo. 8vo. 339 pp. *Utrecht*, 1780

(*Vide* also Rossyn, J. Th.)

**Rossler**, T. F. Progr. de luce primigenia. 4to. *Tubingen*, 1776

(*Note.—The light before the creation of the Sun mentioned by Moses was, according to this author, an electrical light.*)

† **Rossyn**, J. Th. Dissertatio philosophica inauguralis de Tonitru et Fulmine, ex nova electricitatis theoria deducendis. 4to. 34 pp. *Francquerœ*, 1762

(*Vide* also Rossijn.)

**Rost**, Joh. Leon. Histor. Beschreibung d. merkwürd. Nordlichts von 1721. 4to. *Nürnberg*, 1721

† **Rother**, L. F.W. Der Telegraphenbau, ein Handbuch zum praktischen Gebrauch für Telegraphen-Techniker und Beamte. Zweite Auflage verb. 8vo. 366 pp. *Berlin*, 1867

† Der Telegraphenbau, ein Handbuch zum praktischen Gebrauch für Telegraphen-Techniker und Beamte. 3te verb. Aufl. 8vo. 306 pp. *Berlin*, 187

**Rothmann**, Chr. "Beobachtete zuerst (obwohl undeutlich) d. Zodiacallicht."

(*Note.—He died long after* 1597, *at Bernberg. Many of his works in MSS. are preserved at Cassel.*)

**Rotterdam Bataafsch Genootschap.** Verhandelingen van het Bataafsch Genootschap der præfondervindelse Wisbegeerde. 4to. *Rotterdam*, 1774 *to* —

**Roucher Deratte** (or **de Ratte** ?). Mélanges de Physiologie, de Physique, et de Chimie. Cont. . . Elect. . . Galv. . . Magnét. 2 vols. 8vo. *Paris*, 180

Traité sur l'élect. le galv. le magnét. &c. 8vo. 180

**Rouelle**, G. F. Oxydation des Goldes, durch d. elektr. Funken. (*Journ. de Médecine, &c. Von Roux. Published probably by his brother. He died* 1770 *a Passy, near Paris.*)

**Rouland**, N. Descr. des mach. élect. à taffetas, &c. 8vo. 35 pp. 1 plate. *Amsterdam and Paris*, 178

Sur l'électricité appliquée aux végétaux. 4to. (*Journ. Phys.* xxxv. 1790.) *Paris*, 179

**Rouppe.** Extrait d'une lettre de M. Rouppe de la Haye, 28 Août, 1801. 8vo (*Journ. de Chim. de Van Mons*, i. pp. 106 et 1808. *Bruxelles*, 180

**Rousseau et Martin-Magron.** (*Vide* Matteucci.)

**Roussier**, P. J. Mém. sur le clave cin électrique de M. de la Borde. 4to. *Paris*, 1782

† **Roussilhe,** L. Notice sur un nouvel électromoteur. 8vo. 15 pp. 2 plates. *Paris*, 1857

† Note sur un perfectionnement de mon Electromoteur, sur un nouveau genre de barrage, et sur une nouvelle Vanne. 8vo. 28 pp. 1 plate. *Paris*, 1857

**Routz.** (*Vide* Elkington and Routz, De.)

**Roux,** Augustin. *Born January* 26, 1726, *at Bordeaux; died June* 28, 1776, *at Paris.*

Expériences nouvelles sur le platine et sur les différents cobalts soumis à l'étincelle électrique. 8vo. (*Ext. du Journal de Médecine*, Nov. 1793.) *Paris*, 1773

† **Roux,** F. L. Conservation des plaques des navires cuirassés et des coques en fer par l'application directe d'un doublage en cuivre. 8vo. 63 pp. 2 plates. *Paris*, 1866

† Etude sur la fabrication et la pose des Câbles électriques sous-marins. 8vo. 52 pp. *Paris*, 1865

**Roux.** (*Vide* Le Roux.)

† **Rowell,** G. A. An Essay on the Cause of Rain and the allied phænomena. 8vo. 166 pp. 1 plate. *Oxford*, 1859

† Papers on the cause of Rain, Storms, the Aurora, and Terrestrial Magnetism. Reprinted from the "Edinburgh New Philosophical Journal," &c.; with an Appeal for a Consideration of the Theory advanced. 8vo. 58 pp. 1 map. *London*, 1871

† **Rowett,** Wm. The new Submarine Telegraphic Cable; the regulation of its specific gravity, and its true construction and submersion explained, showing its easy adaptation to deep sea as well as to shallow waters, and at a great diminution of expense. 8vo. 43 pp. *London*, 1858

† The Ocean Telegraph Cable; its construction, the regulation of its specific gravity and submersion explained. 8vo. 122 pp. 4 plates. 1 map. *London*, 1865

Light Sea Cables. 4to. (*Elect. Teleg. Review, &c.*, September 24, 1870. *From British Association, Liverpool, Section G.*) *London*, 1870

**Rowning,** John. *Died November*, 1771, *at Lincoln's Inn Fields.*

A Compendious System of Natural Philosophy. 2 vols. 8vo. *London*, 1744

A Compendious System of Natural Philosophy. 2 vols. 8vo. *London*, 1753

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**Rugger.** On the Leyden Phial.

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(*I can find no account in any periodical of this instrument, or any precise date of its first appearance. Feilitzsch*, p. 416, 1865, *says that it appears to have become known by degrees* (*nach und nach*): "*indem eine seine Einführung bezweckende Abhandlung sich nicht vorfindet.*" *Du Moncel describes it, &c. in four or five Editions* (*first in* 1855 *and last in* 1867 ?), *entitled*, "*Notice sur l'Appareil d'Induction de Ruhmkorff.*"—F. R.)

(*Vide* also Verdu and Ruhmkorff.)

(*Vide* also Du Moncel.)

† **Rundell,** Westcott. Author of the Three Reports on the Magnetism of Iron Ships, made by the Compass Committee of Liverpool to the Board of Trade, and presented to Parliament and ordered to be printed.

(*Vide* Liverpool Compass Committee.)

† **Rundspaden,** A. Über die Electrolyse des Wassers in Berührung mit Silber. Inaugural Dissertation . . an der Universität Göttingen. 8vo. 43 pp. *Göttingen*, **1869**

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† **Runnels,** J. Specimen phil. inaugurale de causa fulminis ac tonitrus. 4to. 27 pp. *Trajecti ad Rhenum*, **1759**

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† **Russegger.** Beiträge zur Ausmittlung der Abweichung der Magnetnadel durch Entgegenhalt der aus alten Karten erhobenen Daten mit den Ergebnissen der gegenwärtig, mit Beibehaltung der gleichen Fixpuncte, erneuert vorgenommenen Vermessung. 8vo. 8 pp. 1 plate. (*Sitzb. d. K. Akad. Wien*, 1849, ix. u. x. Heft, p. 203.) *Wien*, 1849

† **Russell,** W. H. The Atlantic Telegraph, illustrated by R. Dudley. 4to. 117 pp. 26 plates, coloured. *London*, 1865?

† **Russian Government,** The. Has made considerable progress towards opening a communication with the northern regions of America by the way of Siberia. 8vo. 1 p. (*Phil. Mag.* xliii. 395.) *London*, 1814

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**Sabatelli**, di Napoli. On Violent Fracture (*quasi* spontaneous) of a Glass Electrical machine.

**Sabine**, Edward. *Born October* 14, 1788, *at Dublin.*

† On Irregularities observed in the direction of the Compass Needles of H.M.ss. "Isabella" and "Alexander," in their late Voyage of Discovery, and caused by the attraction of the iron contained in the ships. 8vo. 7 pp. (*Phil. Mag.* liv. 276.) *London*, 1819

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(*Vide* also Arago.)

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**Sage,** Balthazar Georges. *Born May* 7, 1740, *at Paris; died September* 9, 1824, *at Paris.*

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(*Note.—This is an improved version of a translation by Péricaud in the "Annuaire de Lyon" for* 1837, p. 33.)

† **Saint-Amans,** De. Account of a Fall of Uranolytes (Aërolites) near Agew. 8vo. 4 pp. ("*Ann. de Chim.* xcii. 25 Oct. 1814.") (*Phil. Mag.* xlv. 23.) *London,* 1815

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† **Saint-Edme,** E. L'Electricité appliquée aux Arts mécaniques, à la Marine, et au Théâtre. 8vo. 234 pp. *Paris,* 1871

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† **Saint-Martin** et **Lacoste.** Rapport à M. le Chev. Pullini . . sur l'essai de Paragrêlage . . dans les environs de Chambéry. 8vo. 50 pp. Table. *Chambéry,* 1825

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† **Salverte,** E. Conjectures on the Stones which have fallen from the Atmosphere. 8vo. 6 pp. (*From Ann. de Chimie,* No. 133.) (*Phil. Mag.* xv. 354.) *London,* 1803

† **Sampson,** T. Electrotint . . by means of Voltaic Electricity. 8vo. 26 pp. 3 plates. *London*, 1842

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† **Sanderson,** W. Observations upon the Variation of the Needle made in the Baltick, Anno 1720. 4to. 1 p. (*Phil. Trans.* xxxviii. *for* 1733-34, p. 120.) *London*, 1735

**Sandonnini,** G. Relazione sopra un metodo di elettro-doratura e di elettro-argentatura esposta dal . G. Sandonnini all' Accad. di Scienze . . di Modena il 28 Luglio, 1843. 1843

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**San-Martino,** Giambattista da. *Born* 1739, *at Lupari, near Treviso; died* 1800, *at Venice.*

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† Riflessioni intorno alla causa d'un fenomeno elettrico. 4to. 18 pp. (*Mem. Soc. Ital.* vi. 120.) *Verona*, 1792

† Lettera all' Amoretti intorno ad un fenomeno magnetico. 4to. 4 pp. 1 figure. (*Opusc. Scelti*, xvii. 243.) *Milano*, 1794

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† **Sanna-Solaro,** J. M. Nouvelle théorie de la Grêle. La. 8vo. 18 pp. 2 plates. (*Extr. Ann. Soc. Météorol. de France*, xi. 95, 9 Juin 1863.) *Paris*, 1863

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† **Sans,** l'Abbé. Guérison de Paralysie par l'Electricité. 1re partie. 12mo. 150 pp. Frontispiece and 1 plate. *Paris*, 1772

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**Santini,** Giovanni. *Born January* 30, 1786, *at Caprese, near Borgo of San Sepolcro.*

† Dei diversi metodi per determinare le longitudini geografiche, e dell' applicazione dell' elettro-magnetismo alla loro determinazione. Memoria. 8vo. 36 pp. (*Estratta dalla Rivista periodica dei lavori della I. R. Accad. di Padova Trim.* 3 *e* 4 *dell' anno* 1855-56.) *Padova*, 1856

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† **Sauer,** G. The International Telegraph Treaty, Paris, April 18, 1865. Translated from the French by G. Sauer. 8vo. 28 pp.) *London*, 1868

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**Saule.** (*Vide* Pfaff and Saule.)

† **Saur,** L. Betrachtungen über die Electricität. 8vo. 88 pp. *Berlin*, 1832

**Saussure,** Horace Bénédict De. *Born February* 17, 1740, *at Conches, near Geneva; died January* 22, 1799, *at Geneva.* (*From Poggendorff*, ii. 755, *who says "Nach ihm becam, durch sienen Sohn, der Saussurit sienen Namen."*)

Dissertatio de Igne. 4to. 36 pp. *Geneve*, 1759

† Dissertatio physica de electricitate, quam, favente Deo, Præside D. D. H. B. De Saussure . . publice tueri sonabitur Amad. Lullin. Die . . Sep. 26. 1766. 8vo. 55 pp. (*This is constantly attributed to Saussure. Vide Lullin.*) *Geneva*, 1766

**Saussure,** Horace Bénédict De.—*continued.*

Exposition abrégée de l'utilité des Conducteurs électriques. 4to. 9 pp. *Genève,* 1771

(*Note.—Landriani says "Manifeste ou Exposition."*)

† Manifesto ossia breve Esposizione dell' utilità dei Conduttori. Tradotto in Italiano da Toaldo. (*Vide* Toaldo.) *Venezia,* 1772

Sur l'Electricité de l'Atmosphère au dessus d'une Montagne du Valais. 4to. (*Journ. de Phys.* ii. 1773.) *Paris,* 1773

Des Effets électriques du Tonnerre observés à Naples. (*Journ. de Phys.* i. 1773.) *Paris,* 1773

Sur l'effet de l'Electricité sur les Animaux microscopiques. 4to. (*Spallanzani's Opusc.* i.) *Modena,* 1776

† Voyages dans les Alpes. 4 vols. 4to. (*Poggendorff,* ii. 755, *says there is also an edition in* 8vo. 1780—96.) *Genève,* 1779-96

Sur l'Electricité des Végétaux. 4to. (*Journ. de Phys.* xxv. 1784.) *Paris,* 1784

Sur l'électricité naturelle de l'homme, et sur un moyen d'estimer facilement celle de l'atmosphère. (*Journ. de Paris,* 1784.) *Paris,* 1784

Découverte des Tourmalines sur le St. Gotthard. (*Journ. de Paris,* 1784.) *Paris,* 1784

Description d'un Electromètre portatif pour l'Electricité de l'Atmosphère. (*Journ. de Paris,* 1785.) *Paris,* 1785

Observations faites sur le Col de Géant. 4to. (*Journ. de Phys.* xxxiii. 1788.) *Paris,* 1788

Metodo facile e semplice per conoscere, colla calamita, il ferro che è nei minerali. 4to. (*Opusc. Scelti di Milano,* iii.) *Milano*

† Mémoire historique sur la vie et les écrits de Horace Bénédict de Saussure. . . par Jean Senebier. 8vo. 219 pp. *Genève,* 1801

**Saussure.** (*Vide* Necker de Saussure.)

**Sauvages de la Croix,** François. *Born May* 12, 1706, *at Alais; died February* 19, 1776, *at Montpellier.*

Dissertatio medica; de hemiplegia per electricitatem curanda. 4to. (*From Krunitz,* p. 188.) *Montpellier,* 1749

(*Note.—Printed under the feigned name of Deshais.*)

De usu electricitatis in Rheumatismo. (*Acta Upsaliensia,* an. 1744-1750, p. 1.) 1744 ?

Nosologia methodica. 8vo. *Amsterdam,* 1760

(*Vide* also Anon. Medical Electricity, 1763.)

**Savary,** Félix. *Born October* 4, 1797, *at Paris; died July* 15, 1841, *at Estagel, East Pyrénées.* (*Poggendorff,* ii. 761.)

† Mémoire sur l'application du calcul aux phénomènes électro-dynamiques. 4to. 26 pp. 1 plate. *Paris,* 1823

Sur les phénomènes électro-dynamiques. 8vo. (*Ann. Chim. Phys.* xxii. xxiii.) *Paris,* 1823

† Mem. sur l'Aimantation. Lu à l'Acad. des Sciences le 31 Juillet, 1826. 8vo. 52 pp. (*Extr. Ann. de Chim.*) *Paris,* 1826

**Savérien,** Alexandre. *Born July* 16, 1720, *at Arles; died May* 28, 1805, *at Paris.*

Histoire des progrès de l'esprit humain dans les sciences naturelles, et dans les arts, qui en dépendent. *Paris,* 1775

† **Savery,** Servington. Magnetical Observations and Experiments. 4to. 46 pp. (*Phil. Trans.* xxxvi. 295. 1 plate.) *London,* 1729-30

† **Savi,** P. Etudes anatom. . . Torpille, &c. (*Vide* Matteucci.) 8vo. *Paris,* 1844

† **Savioli,** G. Dissertatio in causam physicam Auroræ borealis. 8vo. 87 pp. *Bergomi*, 1789

† Dissertazione sulla causa fisica dell' Aurora-boreale, tradotta dall' originale latino, con qualche aggiunta dell' Autore. 4to. 40 pp. (*Opus. Scelti*, xiii. 3.) *Milano*, 1790

† **Saweljeff,** A. Magnetische Beobachtungen und geographische Orts-Bestimmungen angestelt im Jahre 1841 während einer Reise an den Küsten des Weissen und Eismeers. Gelesen am 31 Mai, 1844. 4to. 32 pp. 1 plate. (*Mem. des Sav. Etrang. de l'Acad. St. Petersb.* vi.) *St. Petersburg*, 1844

Über d. Polarisations-Erscheinungen in d. galvan. Kette. Magister-Diss. (russisch.) *St. Petersburg*, 1845

Über d. galvan. Leitungsfähigkeit d. Flüssigkeiten (russ.) (*In Erman's Archives*, xv. *It received the Demidorf prize.*) *Kasan*, 1853

**Royal Saxon Society.** Berichte über die Verhandlungen der k. sächsischen Gesellschaft der Wissenschaften zu Leipzig.

† **Saxton.** Magneto-electric Machine. 8vo. (*Exhibited at the Meeting of the British Association*, June, 1833.) *London*, 1833

Improved Magneto-Electric Rotation Machine. 8vo. (*Phil. Mag.* ix. p. 360, 1836.) *London*, 1836

**Saxtorph,** Friderich. *Born at Roeskilde, Iceland; died* 1806.

Elektricitätaläre. 2 vols. 8vo. *Kiöbnhaven*, 1802-3

† Darstellung der gesammten auf Erfahrung u. Versuchen gegründeten aus dem Dänischen übersetzt von B. Fangel. Erster Theil. 8vo. 552 pp. 6 plates. *Kopenhagen*, 1803

† Darstellung der . . Electricitätalehre . . aus dem Dänischen übersetzt von B. Fangel. Zweyter und lezter Theil. 8vo. 521 pp. 2 plates. *Kopenhagen*, 1804

Om den bedste Inretning af en Elektrisier-maskine. (*Rafn's Phys. Biblioth.* xii.)

**Saxtorph,** J. Afhandl. om Galvanism (Anhang zu seine Lärebog i Naturlären. Kiobnh. 1779.) 8vo. *Kiöbnhaven*, 1804

Kort Vejledning til Kundskap om Elektriciteten. 8vo. *Kiöbnhaven*, 1807

**Scaguller,** G. Di un caso creduto per alcuni stranissimo, e nuovo, cicalata di G. Scaguller. 4to. 1794

Sull' efficacia dei conduttori. 8vo. 27 pp. *Venezia*, 1797

Comento . . alla pagina 102 del Giornale Astro-meteorologico per l'anno 1806. 8vo. 16 pp. *Venezia ?* 1806

† Del comune antico proverbio . . applicato al libro "Dubbj sull' efficacia de' Conduttori elettrici," del Trans. Bragadin . . Cicalata estemporanea seconda. . . 8vo. *Venezia*

**Scales,** W. Handbook to the Electric Telegraph. 3rd edition. *From Schellen. About* 1848

† **Scaramella,** A. Le Bussole indeclinabili del MDCCCXVI. ad uso della geodesia e della nautica. 8vo. 36 pp. 1 plate. *Venezia*, 1816

† Le Bussole indeclinabili del 1816 ad uso della Geodesia e della nautica. 2d ed. 8vo. 36 pp. 1 plate. 1820

† La paralizzazione della mobilità dell' ago magnetico alla vicinanza del ferro scoperta l'anno 1816. . . 1st ed. 8vo. 16 pp. 3 plates. *Venezia*, 1820

† **Scaramelli.** Il Paragrandinatore istruito sull' arte e sugli usi dei paragrandini e parafulmini alla Tholard. 8vo. 20 pp. 2 plates. *Venezia*, 1824

**Scarella,** Giambattista. *Born* 1711, *at Brescia; died February* 26, 1779, *at Brescia.*

De Magnete. Libri quatuor. 2 vols. 4to. 2 plates. *Brixiæ*, 1759

(*Vide* also Casali.)

* **Scarpellina,** C. Termografia Italiana, istituita da Zantedeschi di Padova. Stazione meteorologica sul Campidoglio. Due lettere al Prof. Zantedeschi. 4to. 8 pp. *Padova,* 1865

**Scarpellini,** la Signora. Ozonometrical Observations made by her, sent regularly to the I. R. Istituto Lombardo. *Rome*

† **Scarso,** J. Disputatio de Magnete. (Adjutore L. Menini.) Thesis. 12mo. 55 pp. *Patavii,* 1813

**Scelta di Dissertazioni.** Cavate dai più celebri Autori si antichi che moderni intorno ad ogni sorte d'arti e scienze. Editore Savioli A. (libraio.) *Venezia,* 1750 *to* —

**Scelta d'Opuscoli interessanti tradotti . . &c.** (*Vide* Amoretti.)

(*Note.—This series was reprinted in* 3 *vols.* 4*to. Nearly all the Electrical articles are in the Library.*)

**Scelta di Opuscoli scientifici e letterari.** *Venezia* 1812 *to* —

**Schäffer,** Jacob Christian. *Born May* 30, 1718, *at Querfurt; died January* 5, 1790, *at Regensburg.*

† Abbildung und Beschreibung des beständigen Elektricitäts-trägers. . . 4to. 48 pp. 2 plates. (*Volta's copy.*) *Regensburg,* 1776

† Kräfte, Wirkungen, und Bewegungsgesetze des beständigen Elektrophors. . . 4to. 50 pp. 1 plate. (*Volta's copy.*) *Regensburg,* 1776

† Fernere Versuche mit dem beständigen Elektricitäts-trägers, &c. . . 4to. 56 pp. 1 plate. *Regensburg,* 1777

† Abbild. Beschr. d. elekt. Pistole u. e. kl. Elektrophors. 4to. 32 pp. 3 plates. *Regensburg,* 1778

† Versuche mit dem beständigen Electricitästräger 4 Abhand. 4to. 176 pp. 7 plates. *Regensburg,* 1780

**Schäffer,** Johann Gottlieb. *Born September* 13, 1720, *at Querfurt, Thüring; died February* 1, 1795, *at Regensburg.*

Die Kraft und Wirkung der Elek. in dem menschlichen Körper. . . 1st ed. 1 vol. 8vo. *Regensburg,* 1752

† Die elektrische Medicin, oder die Kraft und Wirkung der Electricität in dem menschlichen Korper. . . 2nd ed. 4to. 84 pp. 1 frontispiece. *Regensburg,* 1776

† **Schaffrath,** L. De electricitate cœlesti, atque ratione ædificia ab ictu fulminis præservandi. . . 4to. 34 pp. 2 tab. *Pestrini,* 1778

**Schaub,** Franz. *Born April* 23, 1817, *at Gross-Schweinbarth, Nieder-Oestere.*

Magnetische Beobachtungen im östlichen Theile des Mittelmeers ausgeführt im Jahr 1857; auf Befehl seiner K. K. Hoh. *Triest,* 1858

**Schaub,** J. Historical Memoir on Galvanism. 8vo. (*Archiv. fur Pharmacie und Ärztliche Naturkunde,* iii. Cahir.) *Cassel,* 1802

(*Note.—Contains Bauer's experiment to cure the toothache by zinc and silver rods in* 1772.)

On Galvanism applied for Deafness, &c. (*Schaub und Piepenbring Archive fur Pharmacie u. Medicinische Physik,* Nos. i. and ii.) *Nürnburg or Cassel,* 1802

Untersuch. einer vom Pariser Institut gemachten galvan. Entdeckung. *Cassel,* 1802

" Essai ou Précis complet de l'histoire du Galvanisme, sous les rapports physiques de chimie et de médecine," &c. 8vo. 2 vols. *Nuremberg,* 1805?

**Schaub.** (*Vide* Gmelin and Schaub.)

† **Schaw.** Télégraphie militaire, traduite de l'Anglais par C. Maunior. 8vo. 44 pp. *Paris,* 1863

**Scheel,** Paul. *Born February* 28, 1773, *at Itzehoe, Holstein; died June* 17, 1811, *at Copenhagen.*

**Scheel,** P. Beskrivelse over et apparat til Vandet's Decomposition ved det Voltaiske Batterie. (*Rafn's Nyt Biblioth.* i. 1801.) *Kiobnhaven*, 1801

**Scheel,** Dr. Paul. Modification of Voltaic pile. (*Nordisches Archiv.* ii. Bd. 2es St. p. 59.) 1801?

**Scheffler,** Aug. Ch. W. H. Giebt. heraus.: Organ f. d. Fortschritte d. Eisenbahnwesens; Darm, von ihm; Über d. Versenk. unterseeischer Telegraphentaue. (Jahrgang xiii.) *Braunschweig*, 1858

† **Scheffler,** J. P. E. Beyträge zu den Untersuchungen über das Elektrum und den Lyncurm. der Alten. 4to. 13 pp. (*Neue Samml. v. Versuche . . d. Naturf. Gesellsch. in Danzig*, i. 234.) *Danzig*, 1778

**Scheibel,** Johann Ephraim. *Born September* 5, 1736, *at Breslau; died May* 31, 1809, *at Breslau.*

Einige Progr. üb. den a. d. Elisabetkirche zu Breslau erricht. Blitzableiter. . . 1793-4

**Scheibel,** G. E. D. d. Blitz in Pulverthurm verunglückte Breslau. 4to. (*From Heinsius.*) *Breslau*, 1750

Die Witterungen, ein Gedicht. 8vo. (*From Heinsius.*) *Breslau*, 1752

**Scheliha,** Von. Torpedo Warfare. A Treatise on Coast Defence: based on the experience gained by Officers of the Corps of Engineers of the Army of the Confederate States, and compiled from Official Reports of Officers of the Navy of the United States, made during the North American War, from 1861 to 1865.

**Schellen,** Thomas Joseph Heinrich. *Born March* 30, 1818, *at Kevelaer, Reg.-Bez. Düsseldorf.*

† Der elektromagnetische Telegraph in den einzelnen Stadien seiner Entwicklung und in seiner gegenwärtig. Ausbildung und Anwendung, &c. . . 8vo. 368 pp. 1st ed. *Braunschweig*, 1850

Beschrijving van den electro-magnetischen Druk-Telegraph van Morse wiens stelsel door het Nederlandsche Gouvernement is aangenomen. Naar het Hoogduitsch; door P. J. M. de Gelder. 12mo. Plates. *Hertogenbosch*, 1852

Der elektromagnetische Telegraph in den Hauptstadien seiner Entwickelung und in seiner gegenwartigen Ausbildung, &c. . . . 2s. ganz umgearbeitete . . . Ausgabe. 2nd edition. 8vo. 259 pp. *Braunschweig*, 1854

† Der elektromagnetische Telegraph in den Hauptstadien seiner gegenwartigen Ausbildung und Anwendung, nebst einem Anhang über den Betrieb der elektrischen Uhren. Ein Handbuch . . . Dritte ganzlich umgearbeitete . . . Auflage. 8vo. 392 pp. *Braunschweig*, 1861

† Der elektromagnetische Telegraph in den Hauptstadien seiner Entwickelung und in seiner gegenwärtigen Ausbildung und Anwendung nebst einem Anhange über den Betrieb der elektrischen Uhren . . . Vierte gänzlich umgearbeitete . . . Auflage. 8vo. 756 pp. *Braunschweig*, 1867

† Das atlantische Kabel, seine Fabrication, seine Legung, und seine Sprechweise. Gemeinfasslich dargestellt. 8vo. *Braunschweig*, 1867

Aufsätze über elektr. Uhren, &c. (*Westermann's Illustrirt. Monatschefte, or in Programmen d. Düsseld. Realschule.*)

† Die Spectralanalyse in ihrer Anwendung auf die Stoffe der Erde und die Natur der Himmels-Körper, gemeinfasslich dargestellt von H. S. 8vo. 452 pp. 2 plates and 4 portraits. *Braunschweig*, 1870

**Schellen,** Thomas Joseph Heinrich.—*continued.*

† Der elektromagnetische Telegraph in den Hauptstadien seiner Entwicklung, und in seiner gegenwärtigen Ausbildung, und Anwendung; nebst einem Anhange über den Betreib der elektrischen Uhren. Ein Handbuch der theoretischen und praktischen Telegraphie . . Fünfte gänzlich umgearbeitete, bedentend erweiterte . . . Auflage. 1st u. 2nd Lieferungen. 8vo. 384 pp. *Braunschweig*, 1870

3rd Lieferung. 191 pp. *Braunschweig*, 1870

4th Lieferung. 290 pp. *Braunschweig*, 1871

**Schelling.** Zeitschrift für speculative Physik.

† **Schelling,** F. W. J. Von. Über Faradays neueste Entdeckung. (*Zur öffentlichen Sitzung der K. Akad. der Wissen.* am 28 März, 1832.) *Munchen*, 1832

Über Faraday's neueste Entdeckungen. 8vo. 1852

**Scherer,** Alexander Nicoläus. *Born December* 30, 1771 (*A. St.*), *at St. Petersburg; died October* 16, 1824 (*A. St.*), *at St. Petersburg.*

Allgem. Journl. d. Chemie. 10 vols. 8vo. *Leipzig & Berlin*, 1798-1803

Archives für d. theoret. Chemie. 4 Hfte. 8vo. *Jena*, 1800-2

Nördlichen Blatter für d. Chemie. 4 Hfte. 8vo. *Halle*, 1817-8

Allgem. nördliche Annal. d. Chemie u.s.w. 8vo. 8 Bde. *St. Petersburg*, 1819-22

**Scherer,** J. B. A. von. Über d. märischen Meteorsteine u. ihre Incrustirung. 8vo. (*Gilb. Ann.* xxxi. 1809.) *Leipzig*, 1809

Über Problematische d. Meteorsteine u. Eisenmassen. (*Oken's Isis*, 1833.) 1833

**Schering,** E. C. J. Zur mathematischen Theorie electrischer Ströme. Beweis der allgemein. Lehrsätze der Electro-dynamite insbesondere der Inductionslehre aus dem electrischen Grundgesetze. Eine am 13 Juni 1857. Gekrönte Preisschrift. 4to. 35 pp. *Göttingen*, 1857

† **Scherzer,** K. Narrative of the Circumnavigation of the Globe by the Austrian ship *Novara*, in 1857—1859. 3 vols. 8vo. Maps and woodcuts. 1861-63

**Scheuchzer,** J. Jb. Historia fulminis d. 23 Mai. (*Ephem. Acad. Nat. Cur.* 1712.) 1710-1712

Meteorologia et Orytographia helvetica, oder Beschreibung d. Luftgeschichten Steine, Metalle, u.s.w. *Zurich*, 1718

De Aurora Boreali d. 2 Oct. 1728. (*Act. Acad. Nat. Cur.* ii. 1730.) 1728-30

† **Schiaparelli,** G. V. Intorno al corso ed all' origine delle stelle meteoriche. Lettere al Secchi. 4to. 33 pp. (*Estr. dal Bullettino Meteorol. dell' Osservat. del Collegio Romano*, vol. v. Nos. 2, 10, 11, 12.) *Roma*, 1866

**Schickard,** William. Ignis versicolor e cælo sereno delapsus et Tubingæ spectatus anno 1623, die 7 Nov. *Tubingæ*, 1623

De globo seu pila ignea ann. 1624.

(*Note.—Poggendorff*, ii. 794, *says*: "*Lichtkugel, darin aus Anleitung des neulich erscheinen. Wundulichts nicht allein von demselbigen in specie, sondern zu mal von der gleichen meteoris in genere u.s.w. gehandelt wird.*)

*Tubingæ*, 1624

† **Scheick,** Über atmosphärische Elektricität. 8vo. 46 pp. *Oldenburg*, 1870

(*Note.—The Polytechnische Bibliothek for January* 1871, No. i. p. 3, *adds*, "*Prog. der Realschule zu Oldenburg.*")

† **Schiefferdecker,** W. Bericht über die vom Verein für wissenschaftliche Heilkunde in Königsberg in Preussen angestellten Beobachtungen über den Ozongehalt der atmosphärischen Luft, und sein Verhältniss zu den herschenden Krankheiten. Gelesen in d. Vereinssitz. am. 30 Mai 1854. 8vo. 47 pp. 15 plates. (*Sitzb. d. Wien Acad.* vol. xvii. 2 Ht. 1855.) *Wien*, 1855

**Schilling,** von Canstadt, Pawel Lwowitsch. *Born April 5, 1786, at Reval; died July 25, 1837, at St. Petersburg.*

(*Vide* Hamel, J. for some account of his Telegraph, &c.)

(*Vide* also Shaffner, Lenz, Wheatstone, and Kuhn, pp. 834—838 particularly; also Muncke, Phys. Worterb. ix. 111.)

(*Note.—Poggendorff*, vol. ii. 798, *makes a statement relative to Wheatstone and Cooke's experiments, giving the invention, in about* 1835, *to Schilling, and the introduction of it into England to Cooke, who learnt it from Muncke at Heidelberg. Schilling does not seem to have published. Poggendorff*, ii. 798, *says:* "*Durch S. Th. Sömmering für d. Idee d. elektr. Telegraphirens enthusiasmirt, benutzte er schon im Oct.* 1812, *den galvan. Strom, um quer durch die Newa Minen zu sprengen. Später* (*wann? sagt Hamel nicht*) *construirte er einen elektromagnet. Telegraphen u. zeigte denselben* 1835 *in d. Naturforscherversammlung zu Bonn vor. Durch dieses Instrument soll Wheatstone auf die elektr. Telegraphie gebracht worden sien, indem ihn ein junger Engländer William Fothergill Cooke, der dasselbe beim Prof. Muncke in Heidelberg hatte functioniren gesehen, von der Einrichtung desselben in Kenntniss setzte* (*Bekanntlich haben übrigens Gauss u. W. Weber die Inductions-Elektricität schon* 1832 *zum Telegraphiren benutzt*)."

**Schilling,** G. W. Diatribe de morbo in Europa pene ignoto, Jaws dicto. 8vo. *Trajecti ad Rhenum*, 1770

(*Note.—Bonnefoy, De l'Application*, p. 48, *says* . . . "*Cui adjuncta est* . . . *Observatio physica de Torpedine*, 1770. *Mém. Acad. Sciences de Berlin*, 1770." *Ellice* (*Saggio*, p. 26) *says:* "*Il medico Schilling osservò sin dal* 1764, *ed annunziò nel* 1769, *che l'ago magnetico si muove quando vi si avvicina l'anguilla tremante;*" *and alludes to the* "*favole che inserì nell' Accad. Rle. di Berlino per l'anno* 1770." *Spallanzani, lettere al Lucchesini*, p. 89, *refers to* "*i pretesi fatti* . . . *in un' opera* . . *di questo medico nel* 1769, *sopra* . . . *una malattia la javvi.*")

Des écrits au sujet de la sensibilité du Gymnotus electricus au Magnétisme. (*Ingenhauz, Nouv. Exp.* p. 340, *says:* "*Publié depuis quelques années,*" *i.e. before* 1786.)

**Schilling,** G. W. and **Hahn.** De Lepra commentationes, (avec) Préface de Hahn. 8vo. *Leidæ*, 1778

(*Note.—Hahn endeavours, in this preface, to explain away Schilling's false statements in his Diatribe* . . . *relative to the Torpedo.*)

**Schilling,** Johann Jacob. *Born April 25, 1702, at Cleve; died* . . .

Observationes et Experimenta de vi electrica vitri aliorumque corporum. 4to. (*Miscellanea Berolinensia*, iv. 334, *pro an.* 1734; *et in idem* v. 109, *pro an.* 1737.) *Berolini*, 1734-37

(*Note.—Waitz, Abhandlung, thought that John Jacob Schilling was the first German experimentalist in Electricity.*)

**Schinz,** Salomon. *Born January 26, 1734, at Zürich; died May 26, 1784, at Zurich.*

† Specimen physicum de electricitate. . . . 4to. 38 pp. (*Read June*, 1776.) (*Volta's copy.*) *Turici*, 1776

Reflexionen über d. Strahlableiter 4to. *Zurich*, 1776

† Supplementum speciminis physici de Electricitate. *Turici*, 1777

**Schlagintweit,** A. und H. Untersuchungen über die Physikalische Geographie der Alpen in ihren Beziehungen zu den Phænomenen der Gletscher, zur Geologie, Meteorologie und Pflanzengeographie. 4to. 71 engravings. 1850

Neue Untersuchungen über die physicalische Geographie u. die Geologie der Alpen. 4to. Atlas, 22 plates in folio. *Leipzig*, 1854

**Schlagintweit,** A. H. and R. Report on the proceedings of the Officers engaged in the Magnetic Survey of India. *Madras*, 1855

**Schlagintweit,** Hermann Rudolph Alfred. *Born May* 13, 1826, *at Munich.*

Reports of the Magnetic Survey of India, and the researches connected with it. Nos. i. to x. (*Indien gedruckt u. auszugsweise in d. Berlin. Zeitschr. f. allgem. Erdkunde,* ii. 1857.) 1859

**Schlagintweit,** Herman, mit Adolph und Robert. Astronom. Ortbestimm. u. magnet Beobacht. in Indien u. Hoch Asien. 8vo. (*From Poggendorff,* ii. 802. *In Poggend. Ann.* cxii. 1861.) *Leipzig,* 1861

Results of a Scientific Mission to India and High Asia, undertaken between the years 1854 and 1858, by order of the Court of Directors of the Hon. East India Company. *Leipzig and London,* 1861

(*Note. — This is the first (of three ?) volumes, and contains the Magnetic Observations.*)

**Schlegel, J.** De Galvanismo. 8vo. (*From Muller's Cat. Dissert.* No. 324.) *Leipzig,* 1797

**Schlesinger.** Die Electricität als Heilmittel; vom physikalischen und experimentell physiologischen Standpunkte erörtert. (*Zeitschrift Wiener Aerzte,* 1852, Juli.) 1852

† **Schlottman, A.** Kritische Geschichte d. Theorieen des Galvanismus. 8vo. 63 pp. *Breslau,* 1856

**Schmidt, C. H.** Beschreibung aller neuerfund. magneto-elektrischen u. elektromagnet. Apparate u. Maschinen für Gewerbetreibende. 8vo. 3 plates. *Leipzig,* 1841

Die Benutzung d. Galvanoplastik f. technische Zwecke. 8vo. 1 plate. *Leipzig,* 1841

Beschreibung aller neuerfundenen magneto-elektrischen u. elektro-magnetischen Apparate u. Maschinen f. Gewerbtreibende. Als Fortsetzung des Unterrichts üb. Magnetismus, Electricitäts, u. Elektro-magnetismus. 8vo. 4 plates. *Leipzig,* 1842

Die Benutzung der Galvanoplastik für technische Zwecke. Enthaltend, ausser e. Bericht über d. neuesten Leistungen der Galvanoplastik, eine sorgfältige Beschreibung u. Abbild. d. galvanoplast. Apparate zur Herstellung von Relief-Kupferplatten. 8vo. 1 plate. *Leipzig,* 1842

Die Kunst des Vergoldens, Versilberns, Verplatinirens, Verzinkens, Verbleiens, Verkupferns, Verkobaltens, und Vernickelns, der Metalle, sowohl nach den bewährtesten älteren Verfahrungsarten, &c. 8vo. 1843

† Handbuch der Galvanoplastik. Zunächst für Künstler und Gewerbtreibende. Nach den neuesten Verbess. bearb. 2 Sehr. Verbesserte Auflage. 8vo. 227 pp. 5 plates. *Quedlinberg,* 1847

Handbuch der Galvanoplastik in allen ihren Anwendungsarten. 3 ganz umgearbeitete und sehr vermehrte Auflage. 8vo. 238 pp. 8 plates lith. *Quedlinburg,* 1856

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**Serinci,** J. H. J. Meditationes physicæ de phialis vitreis quæ casu minimi silicis in easdem projecti dissiliunt. (*Act. Acad. Nat. Cur.* x. 1754.) 1754

† **Serra,** F. M. De Boreali Aurora, Genuæ visa 14 Kalendas Januarii, Anni 1737, nuper elapsi. Carmen. 12mo. 27 pp. (*Calogera, Raccolta*, xvii. 69.) *Venezia*, 1738

**Serres,** Pierre Marcel Toussaint. *Born November* 3, 1783, *at Montpellier.*

† Observations on the Fall of Stones from the Clouds. 8vo. 16 pp. (*Phil. Mag.* xliv. pp. 217 and 253.) *London*, 1814

Sur l'intensité magnétique des laves. *Marseille*, 1831

Translation with additions, &c. of Œrsted's "Ansicht d. chemischen Naturgesetze."

† **Serrin.** Rapport sur un Régulateur de la Lumière Electrique imaginé par M. Serrin. Commission composée de MM. Becquerel, Despretz, Combes, Pouillet rapporteur. 4to. 7 pp. (*Ext. des Comptes Rendus de l'Acad.* tome liv. *Séance du* 10 Mars 1862.) *Paris*, 1862

† **Servier,** E. Notice sur le moteur électro-magnétique de pression ou de niveau à maxima et à minima. 32mo. 16 pp. *Paris*, 1859

† **Sestier et Méhu.** De la Foudre, de ses formes et de ses effets sur l'homme, les animaux, les végétaux et les corps bruts; des moyens de s'en préserver, et des paratonnerres par F. Sestier. Rédigé sur les documents laissés . . et complété par C. Méhu. 2 vols. 8vo *Paris*, 1866

† **Setschenou,** S. Über die elektrische und chemische Reizung der sensiblen Rückenmarksnerven d. Frosches. 8vo. 69 pp. *Graz*, 1868

**Seugraff.** Un mémoire sur un système de reproduction autographique des signatures dans les communications télégraphiques. 4to. (*Comptes Rendus de l'Acad.* 1855.) *Paris*, 1855

**S'Gravesande.** (*Vide* Gravesande.)

**Severe.** (*Vide* St. Severe.)

**Sevin.** (*Vide* Delalot-Sevin.)

† **Sewall,** S. Magnetical Observations made at Cambridge, by Sewall. 4to. 5 pp. (*Mem. Amer. Acad.* Old Series, i. pt. ii. p. 322.) *Boston*, 1785

**Seward,** W. H. Der Telegraph um die Erde. Zur Verbind. d. östl. u. westl. Halbkugel. Nach offic. Orig.-Documenten. A. d. Engl. v. Cl. Gerke. 8vo. 1 Weltkarte. *Hamburg*, 1865

**Seyffer,** Otto Ernst Julius. *Born October* 7, 1823, *at Stuttgart.*

† Geschichtliche Darstellung des Galvanismus; erweiterte Ausarbeitung einer, im Jahr 1844, von der philos. Facultät der Univers. zu Heidelb. gekrönten Preisschrift. 4to. 638 pp. *Stuttgart & Tubingen*, 1848

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† **Seyffert,** J. H. Über seine galvan. Batterie. 8vo. (*Gilb. Ann.* xi. 1802, S. 375.) *Leipzig,* 1802

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**Sforza.** Meteorologicæ lucubrationes. 4to. *Neapoli,* 1570

**Sgagnoni,** P. Relazione delle osservazioni fatte nel circondario di Borgo San Donnino per verificare un fenomeno meteorologico apparso nelle ville di Cella, di Costamezzana, Pieve di Cusignano, e Varano de' Marchesi. 8vo. *Reggio,* 1808

† **Sgagnoni e Guidotti, &c.** (1.) Delle pietre cadute nel Parmigiano; (2) e Notizia su antichi Aeroliti tratta dall' Arabo Kaswini. 4to. 6 pp. (*Nuova Scelta d' Opus.* tom. ii. 327 and 333. *The second in Bibl. Britt.* No. 304.) *Milano,* 1807

(*Note.—This is Amorelli's "Transunto delle osservazioni fisico-chimiche fatte sulle pietre cadute dall' atmosfera nel Parmigiano dai. Scagnoni e Guidotti," and of an article in the Bibliothèque Britannique,* No. 304, *on an old notice concerning Aërolites, by Kazwini.*)

† **Sguario,** Eusebi. Dissertazione sopra le aurore boreali. 4to. 119 pp. 3 plates. *Venezia,* 1738

Due dissertazioni della elettricità applicata alla medicina. 8vo. *Venezia,* 1746

(*Note.—He is said to have been the first writer on Electricity in Italy. Krunitz calls him Squario, Euseb.*)

† **Shaffner,** T. P. The Telegraph Manual; a complete history and description of the Semaphoric, Electric, and Magnetic Telegraphs of Europe, Asia, Africa and America, ancient and modern. 8vo. 850 pp. 10 portraits, steel. *New York,* 1859

† **Sharpe,** Benjamin. A Treatise on the Construction and Submersion of Deep-sea Electric Telegraph Cables. 8vo. 16 pp. 1 plate. *London,* 1861

**Sharpe,** R. On his Electric Telegraph, invented in 1813. 8vo. (*Repertory of Arts,* 2nd series, xxix. 23.) *London,* 1816

(*Note.—No description of this Telegraph appears to have been printed. It was mentioned at the Admiralty after the invention and full description of Sommering's, described fully and with figures in the Denkschriften of the Acad. of Munich for* 1809-10, *printed in* 1811.)

**Shaw,** George. *Born December* 10, 1751, *at Bierton, Buckinghamshire; died July* 22, 1813, *at London.*

† Osservazioni sulla Scolopendra elettrica e Scolopendra sotterranea. 8vo. 4 pp. (*Ann di Chim. di Brugnatelli,* ix. 26.) *Pavia,* 1795

† Manual of Electro-Metallurgy. 8vo. 49 pp. *London,* 1842

† Manual of Electro-Metallurgy. 2nd edition, considerably enlarged. 8vo. 202 pp. 2 specimens of glyptography. *London,* 1844

**Shebbeare.** The Practise of Physic, founded on principles in Physiology hitherto unapplied to physical enquiries. 2 vols. 4to. *London,* 1755

† **Shepard,** Ch. Report on American Meteorites. *New Haven, U.S.* 1848

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† **Shepherd,** C. On the application of Electro-Magnetism as a motor for Clocks. 8vo. 24 pp. Cuts. *London,* 1851

† **Short,** James. An extract from a Letter from J. S. to Rd. Graham. Dated Edinb. Nov. 18, 1736. 4to. 2 pp. (*Phil. Trans.* xli. 368.) *London,* 1739-40-41

† **Short,** T. An account of several Meteors in a letter to the President. Dated Sheffield, March 18, 1740-41. 4to. 6 pp. (*Phil. Trans.* xli. 625.) *London,* 1739-40-41

† **Sidney,** E. Electricity: its Phenomena, &c. 16mo. 184 pp. *London,* 1843

Electricity: its Phenomena, Laws, and Results. New edition. 8vo. *London,* 1862

(*Note.—Latimer Clark's Catalogue mentions an edition of* 1855.)

**Siebold**, P. F. Flora Japonica, seu plantæ quas in imperio Japonico collegit, descripsit, ex parte in ips. loc. pingendas curavit. Plantas ornatui vel usui inservientes digess. T. G. Zuccarini. *Lugd. Bat.* 1835

**Siebold.** Ueber die Kenntniss der Polarität des Magnets und den Gebrauch der Magnetnadel bei den Chinesen in ältester Zeit. (*Verh. d. Naturh. Ver. d. Rheinl.* 1855, vii.) 1855

**Siemens**, C. W. On the progress of the Electric Telegraph. 8vo. (*Journ. Soc. of Arts*, vi. 1858.) *London*, 1858

† Inaugural Address delivered to the members of the Society of Telegraph Engineers, by C. William Siemens, D.C.L., F.R.S., President, on Feb. 28, 1872. 8vo. 19 pp. *London*, 1872

(*Vide* also Siemens, E. W. and C. W.)

**Siemens**, Ernst Werner. Anwendung d. elektr. Funkens zur Geschwindigkeitsmessung. 8vo. (*Poggendorff's Ann.* lxvi. 1845.) *Leipzig*, 1845

Eleven Articles on Electric Telegraphs, on Magneto-electric Machines, on Induction, on unusual Electric appearances, upon the Pyramid of Cheops, &c. (*Poggendorff's Annalen*, vol. lxvi. 1845, to vol. cxiii. 1861.)

Verfahren z. Mess. kleiner Zeitintervalle. (*Fortschr. d. Physik.* 1845.)

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Bericht über die Fortschritte der Telegraphie im Jahr 1846. (*Berlin Ber.* ii. 540.) *Berlin*, 1846

† Mémoire sur la Télégraphie électrique. Présenté à l'Académie des Sciences le 15 Avril 1850. 8vo. 48 pp. (*Ann. Chim. Phys.* sér. iii. xxix. 1850.) *Paris*, 1851

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Über Bonelli's Vorschlag die über-sponnenen Kupferdrähte für Elektromagnete durch Papierbänder mit metallischen Linien zu ersetzen. (*Zeitschr. d. Deutsch-österr. Telegr.-Vereins*, vol. iii. 1856.) 1856

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Rapport fait à l'Académie de Berlin sur les appareils télégraphiques de M. Siemens (de Berlin).

*Vide* also Poggendorff, vol. ii. pp. 925-6, who gives a long list of items relative to Siemens, and Siemens and Halsk's operations, &c., but no indications as to where descriptions of them are to be found.

Mémoire sur la Télégraphie électrique. 8vo. (*Comptes Rendus*, xxx. 434.) *Paris*, 1850

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**Siemens,** E. W. and C. W. Outline of the principles and practice involved in dealing with the Electrical conditions of Submarine Electric Telegraphs; with C. W. Siemens. 8vo. *London*, 1860

**Siena Accad.** Atti dell' Accad. delle Scienze di Siena (detta dei Fisio-Critici). (1760 *to* . . . ) 4to. Plates. *Siena*, 1760-1844 ?
(*Note.—The publication of this was much interrupted.*)

**Sigaud de la Fond.** *Born* 1740, *at Dijon; died January* 26, 1810, *at Bourges.*

Lettre sur l'Electricité médicale. 12mo. *Amsterdam*, 1771

† Traité de l'Electricité; pour servir de suite aux Leçons de physiques. 12mo. 413 pp. 12 plates. *Paris*, 1771
(*Note.—There is a reprint of this* Traité *with the date* 1776. *Or there was a new title-page printed for this impression.*)

Sur la fusion de l'Or opérée instantanément par une commotion électrique . . . 4to. (*Journal de Phys.* ii. 1773.) *Paris*, 1773

† Précis historique des phénomènes électriques. 8vo. 742 pp. 9 plates. *Paris*, 1781

† Précis hist. et exp. des phénomènes électriques. 2me Edition, revue et augmentée. 8vo. 624 pp. 10 plates. *Paris*, 1785

Examen de quelques principes erronés en électricité. 8vo. *Paris*, 1795-6

† De l'électricité médicale. 8vo. Plates. *Paris*, 1803

**Silberschlag,** Johann Esaias. *Born November* 16, 1721, *at Aschersleben; died November* 22, 1791, *at Berlin.*

† Theorie d. am. 23 Juli 1762, ersch. Feuerkugel. 4to. 135 pp. 2 plates. *Magdeburg*, 1764

De Aurora boreali. 4to. 2 plates. *Berlin*, 1770

† Sendschreiben über das, am 18 des Janners . . 1770, zu Berlin, beobachtete Nordlicht, an seinen Bruder . . . 4to. 23 pp. 2 plates. *Berlin*, 1770

System d. Neigung u. Abweichung d. Magnetnadel. 4to. (*Mem. Berlin*, 1786.) *Berlin*, 1786

† Systema inclinationis et declinationis utriusque acus magneticæ. 4to. 60 pp. 11 plates. (*Mém. Berl.* Août, 1786-87.) *Berlin*, 1786-7

**Siljestrom,** P. A. Observationer öfver nordskenet. 8vo. (*Vetensk. Acad. Handl.* 1841.) *Stockholm*, 1840

Om magnetiska inklinationens årliga variation. (*Afhandlingar i. fysiska och filosofiska amnen*, No. ii. 1857.) 1857

**Silliman,** Benjamin. *Born August* 8, 1772, *at Trumbull, Connecticut.*

† On the Galvanic Deflagrator of Professor Robert Hare. 8vo. 4 pp. (*Phil. Mag.* lix. 113.) *London*, 1822

† Meteor of a green colour, observed by him on crossing the East River between New York and Long Island, on the 11th February, 1828. 8vo. 1 p. (*Phil. Mag. or Annals*, iv. 66.) *London*, 1828

† **Silliman** and **Kingsley.** An account of a remarkable shower of Meteoric Stones, at Weston, in America. 8vo. 14 pp. (*Phil. Mag.* xxx. 232.) *London*, 1808

Memoir on the Meteoric Stones which fell from the atmosphere in the State of Connecticut, on the 14th December, 1807. 4to. (*Trans. American Phil. Soc.* Old Series, vol. vi. Part ii.) *Philadelphia*, 1818

**Silliman,** B. and others. The American Journal of Science and Arts. 71 vols. 8vo. (*Continued.*) *Newhaven*, 1818 *to* 1856

† **Silliman,** B. (jun.) Principles of Physics, or Natural Philosophy; designed for the use of colleges and schools. 2nd Edition, revised and rewritten. 8vo. 710 pp. *Philadelphia*, 1869

**Silvestre,** Augustin François de. *Born December* 7, 1762, *at Versailles; died August* 4, 1851, *at Paris.*

**Silvestre,** Augustin François de.—*continued.*

Traité complet d'Electricité par Cavallo. Traduit de l'Anglais sur la 2de édition de l'auteur enrichie de ses nouvelles expériences. 8vo. 343 pp. 4 plates. *Paris*, 1785

(*Vide* also Chappe and others.)

**Simmons.** Essay on the Cause of Lightning, &c. 8vo. 81 pp. *Rochester*, 1775

**Simon,** Paul Louis. *Born January* 12, 1767, *at Berlin; died February* 14, 1815, *at Berlin.*

Beschreib. e. neuen-galvanisch-chem. Vorrichtung u. einiger merkwürd. Versuche damit. 8vo. *Leipzig*, 1801

Resultate d. neuest. Untersuchungen d. Galvanismus. 8vo. (*Scherer's Journ.* vi. 1801.) *Berlin* (*or Leipzig*), 1801

Versuche über d. Wirkung d. Volta'schen Säule auf d. Wasser. 8vo. (*Sue adds a third article, "la production d'un acide et d'un alcali par l'action de la pile de Volta sur l'eau."*) *Berlin* (*or Leipzig*), 1801

† Observations sur l'attraction. 8vo. 18 pp. *Paris*, 1819

**Simonoff,** Iwan Michailowitsch. *Born* 1785, *at Astrakan; died January* 21, 1855 (*N. St.*), *at Kasan.*

† Recherches sur l'Action magnétique de la Terre. 8vo. 78 pp. 1 plate. *Kazan*, 1840

**Simons,** Gerrit. Electromagnetische proeven. (*Natuur- en Scheikundig Archif*, iii. 1835.) 1835

**Simpson.** Zymologia physica, &c. 8vo. *London*, 1675

† **Simpson,** J. Y. Observations regarding the influence of Galvanism upon the action of the Uterus during Labour. 2nd edition. 8vo. 16 pp. (*Edinb. Monthly Journ. of Med. Science*, July, 1846, p. 33.) *Edinburgh*, 1846

† **Sinding,** E. A. H. Magnetiske Undersgeleser foretagne i 1868. Indberetning til det akademiske Collegium ved det kongelige Frederike Universität. 8vo. 44 pp. 1 plate. *Christiania*, 1870

**Singer,** George John. *Born about* 1786; *died June* 28, 1817, *at London.*

† Announcement of a new system of Insulation for Electrical Apparatus. 8vo. 1 pp. (*Phil. Mag.* xxxvii. 80.) *London*, 1811

(*Note.—This method was derived from my suggestion.*—F. R.)

† An Electric Column recently constructed (by him) of twenty thousand pairs of zinc and silver plates, small; a series of three thousand larger, &c.; and Experiments. 8vo. 1 page. (*Phil. Mag.* xli. 393.) *London*, 1813

† On Electrical Influence. 8vo. 3 pp. (*Phil. Mag.* xlii. 36.) *London*, 1813

† On Electricity. 8vo. 4 pp. (*Phil. Mag.* xlii. 261.) *London*, 1813

† On Electricity. 8vo. 3 pp. (*Phil. Mag.* xliii. 20.) *London*, 1814

† Elements of Electricity and Electro-Chemistry. 8vo. 480 pp. 4 plates. *London*, 1814

(*Note.—This copy has two impressions produced by explosion of wires, in addition to the four plates.*)

† The Electric Column considered as a Maintaining Power, or first Mover for mechanical purposes. 8vo. 5 pp. 1 plate. (*Phil. Mag.* xlv. 359.) *London*, 1815

† Some Account of the Electrical Experiments of M. De Nelis, of Malines in the Netherlands, communicated by Mr. Singer. 8vo. 6 pp. 1 plate. (*Phil. Mag.* xlvi. 259.) *London*, 1815

† Elements d'Electricité et de Galvanisme par G. Singer, ouv. traduit de l'Anglais et augmenté de Notes par Thyllaye. 8vo. 655 pp. 5 plates. *Paris*, 1817

**Singer,** George John.—*continued.*

† Elementi di fisica e chimica Elettrica. Traduzione dal Francese. 8vo. 410 pp. 5 plates. *Milano,* 1819

† Elemente der Elektricität und Electro-chemie aus dem Engl. mit Anmerkungen . . von Muller. 8vo. 502 pp. 4 plates. *Breslau,* 1819

**Singer,** G. J. and **Cross,** A. Account of some Electrical Experiments by M. De Nelis, of Malines in the Netherlands: with an Extension of them. 8vo. 6 pp. 1 plate. (*Phil. Mag.* xlvi. 161.) *London,* 1815

**Sinner,** Basilius. Beschreibung d. Telegraphen, welchen B. Sinner in d. Bibliothek zu Füessen aufgestellt hat. *Tuessen,* 1795

**Sinobas.** (*Vide* Rico-y-Sinobas.)

**Sjoestén,** C. G. Beskrifning på ett nytt sätt magnetisera stalstanger kallad cirkelstrickning. 8vo. (*Vetensk Akad. Handl.* 1802, *Beschreibung einer neuen Methode Stahlstangen mittelst des Kreisstriches zu magnetisiren.*) *Stockholm,* 1802

† **Skinner,** J. (Lieut.) Engraving from a drawing by him of a Waterspout, and Note by Editor. 8vo. 1 p. 1 plate. (*Phil. Mag.* xx. 374.) *London,* 1804

**Smaasen,** Willem. *Born January* 5, 1820, *at s'Gravenhage; died February* 23, 1850 *at Kampen.*

† Specimen . . de equilibrio dynamico electricitatis in plano et in spatio . . submitt. 26 Mart. 1846. 4to. 32 pp. 1 plate. (*Auszug in Pogg. Annal.* lxix. 1846 and lxxii. 1847.) *Trajecti ad Rhenum,* 1846

† **Smaastykker.** Om Galvanismen og Elektro-magnetismen samt deres Anvendelse. Meddelt ved Aftenmeder i Tingjellinge Skole af A. Jacobsen. 12mo. 42 pp. *Kjobenhavn,* 1871

† **Smeaton,** John. An account of some Improvements of the Mariner's Compass, in order to render the Card and Needle proposed by Dr. Knight of general use. Presented July 5, 1750, here printed with alterations. 4to. 5 pp. 1 plate. (*Phil. Trans.* xlvi. 513.) *London,* 1749

**Smee,** Alfred. *Born June* 18, 1818, *at Camberwell, near London; died* 1878.

† On the Galvanic Properties of the principal Elementary Bodies, with a description of a new Chemico-mechanical Battery. 8vo. 11 pp. (*Lond. and Edinb. Mag. for* April, 1840.) (*Arago's copy.*) *London,* 1840

† Elements of Electro-Metallurgy, or the Art of Working in Metals by the Galvanic Fluid. 1st edition. 8vo. 163 pp. 1 woodcut. *London,* 1841

Nouveau Manuel complet de Galvanoplastie, par Smee. (*Vide* also Valicourt.) *Paris,* 1843

† Elements of Electro-Metallurgy. 2nd edition, enlarged, &c. 8vo. 338 pp. Frontispiece, with electrotypes and woodcuts. *London,* 1843

† Nouveau Manuel complet de Galvanoplastie . . par M. Smee, augmenté de . notes d'après Jacoby, Spencer, Becquerel, De Kobell, De La Rive, Elkington, De Ruolz, etc.; suivi d'un Traité de Daguerréotypie . . Ouvrage publ. par M. P. De Valicourt. Nouvelle édition. 12mo. 566 pp. *Paris,* 1845

† Elements of Electro-Biology. 8vo. 164 pp. *London,* 1849

Instinct and Reason, deduced from Electro-Biology. 8vo. Plates. 1850

† Lecture on Electro-Metallurgy, delivered before the Bank of England Library and Literary Association, November 25, 1851. 8vo. 23 pp. *London,* 1851

Elements of Electro-Metallurgy. 3rd edition, revised, corrected, and considerably enlarged. 8vo. 374 pp. Cuts. *London,* 1851

† Elemente der Electro-Metallurgie. Deutsch bearbeitet nach der dritten . . engl. orig. Ausgabe. 8vo. 408 pp. *Leipzig,* 1851

Elements of Electro-Metallurgy, First American, from the third London edition. Revised, corrected, and considerably enlarged by Chilton. 12mo. 364 pp. *New York,* 1852

**Smee,** Alfred.—*continued.*

Nouveau Manuel complet de Galvanoplastie . . Augmenté d'un grand nombre de notes d'après M. M. Jacoby, Spencer, Elsner, Becquerel, De Kobell, De La Rive, Elkington, De Ruolz, etc. Ouvrage publié par E. De Valicourt. Nouvelle édition, traduite sur la 3me édition de l'original anglais, entièrement refondue. 2 vols. 18mo. 791 pp. (*Vide* also Valicourt.) *Paris*, 1860

(*Vide* also Anon. Elect. 1852.)

**Smith,** Archibald. *Born August* 10, 1813, *at Glasgow.*

† Instructions for the computation of a Table of the Deviations of a Ship's Compass; from deviations observed on four, eight, sixteen, or thirty-two points; and for the adjustment of the Table on a change of Magnetic Latitude. Published by order of the . . Admiralty. 8vo. 31 pp. *London*, 1851

On Correcting the Deviations of a Ship's Compass. 8vo. *London*, 1855

Supplement to the practical rules for ascertaining the Deviations of the Compass . . caused by the Ship's Iron, &c. 2nd edition, and a graphic Method of correcting. Published by order of the Lords Commissioners of the Admiralty. 8vo. Figs. *London*, 1855

**Smith,** J. L., Prof. Manual of Telegraphy. (*From Morse.*) *New York*

**Smith,** Samuel. Application of Electro-Magnetism. *New York, U.S.* 1850

**Smith.** (*Vide* Evans and Smith.)

**Smithsonian Institution.** Smithsonian Contributions to Knowledge. 4to. *Washington. Commencing* 1848

Catalogue of Works published by the Institution.

A collection of Meteorological Tables, with other Tables useful in practical Meteorology. Prepared by order of the Smithsonian Institute by Arnot Guyot. 8vo. *Washington*, 1852

Smithsonian Reports. Notices of Public Libraries in the United States, by C. Jewett, Librarian. 8vo. *Washington*, 1851

Tables, Meteorological and Physical, prepared for the Smithsonian Institution, by Guyot. 8vo. *Washington*, 1858

**Smithsonian Report.** On the Construction of Catalogues of Libraries and their publication, by means of separate stereotyped titles. With Rules and Examples. By C. C. Jewett. 2nd edition. 8vo. *Washington*, 1853

† **Smyth,** C. Piazzi. Contributions to a knowledge of the phænomena of the Zodiacal Light. Read February 7, 1848. 4to. 13 pp. 1 plate. (*Trans. Rl. Soc. of Edinb.* xx. pt. iii.) *Edinburgh*, 1852

**Snaith** and **Gardiner.** Magnetism and Electricity. (*From the "Athenæum," Nov.* 18, 1871.) 1871

† **Snart,** J. Physico-mechanical experiments and discussions of the phænomena observable in that casual product of Art, the Hand Grenade, Prince Rupert's Drop, or Glass Tear. 8vo. 6 pp. (*Phil. Mag.* xxii. 334.) *London*, 1805

**Snell,** C. W. Nachricht von e. starken Luftelektricität. 8vo. (*Lichtenburg's Mag. f. Phys.* v. 1788.) *Gotha*, 1788

**Snow,** Robert. *Born about* 1806; *died August* 4, 1854, *at London.*

† Observations of the Aurora Borealis from September, 1834, to September, 1839. 12mo. 17 pp. (*Also in Proceedings of Astronom. Society.*) *London*, 1842

**Snowball,** J. C. Cambridge course of Elementary Natural Philosophy. 12mo. 1850

**Soave,** Francesco. *Born June*, 1743, *at Lugano; died January* 17, 1806, *at Pavia.*

† Appendice (del Traduttore) ove spiegasi per qual ragione la scossa della Torpedine non sia accompagnata da strepito nè da luce. 12mo. 6 pp. (*Scelta di Opuscoli*, xv. p. 60.) *Milano*, 1778

**Soave,** Francesco.—*continued.*

† Articolo di lettera al C. Amoretti sull' Aurora Boreale dei 28 passato Luglio. 4to. 2 pp. (*Opus. Scelti*, iii. 253.) *Milano*, 1780

† Elogio di Francesco Soave . . scritto da G. Savioli. 4to. 16 pp. (*Nuova Scelta d'Opusc.* i. p. 413.) *Milano*, 1804

(*Note.—He is said in another Elogio to have written "Alcune sue congetture sulla Scossa della Torpedine," in the Scelta d'Opuscoli.*")

† **S . . .** (q. Soave). Descrizione di una nuova macchina elettrica . . (per) amendue le elettricità. 12mo. 9 pp. 1 plate. (*Scelta d'Opuscoli . . in* 12mo. viii. 75.) *Milano*, 1775

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**Società Italiana.** Memorie di Matematica e Fisica della Società Italiana delle Scienze. 4to. *Verona e Modena*, 1782 *to* —

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**Soldani,** Ambrogio. *Born* 1733, *at Poppi, Tuscany; died July* 14, 1808, *at Siena.*

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† On the influence of Electricity on Vegetation. 8vo. 31 pp. (*Journal of the Horticultural Society*, vol. i. part ii.) *London*, 1845

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† **Soret,** L. Sur la décomposition des sels de cuivre par la pile et la loi des équivalents électro-chimiques. 8vo. 23 pp. (*Tiré de la Bibliothèque Universelle de Genève, Octobre*, 1854.) *Geneva*, 1854

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† **Sowerby.** Notice of a plate . the Meteor-Stone . seen to fall in Yorkshire on the 13th December, 1795; and engravings of part of the one which fell in Scotland in 1804, and of that which fell in Ireland in 1810; all of which are deposited in his museum.) (*Phil. Mag.* xl. 315.) 1812

† **Sowerby,** J. Particulars of the Sword of Meteoric Iron presented by Mr. Sowerby to the Emperor Alexander of Russia. 8vo. 4 pp. (*Phil. Mag.* lv. 49.) *London*, 1820

**Spallanzani,** Lazaro. *Born January* 12, 1729, *at Scandiano Herz, Modena; died February* 11, 1799, *at Pavia.*

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† Abhandl. üb. Elektrometer. 8vo. 1 plate. 95 pp. *Nürnberg*, 1791

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† Ueber den natürlichen Magnetismus unserer Erde; über das Nordlicht, Sonnenflecken, Feuerkugeln, Sternschüsze und Cometen. 8vo. 138 pp. *Nürnberg*, 1822

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† Stadler, D. Magnes, experimentis, theoriis et problematis explanatus. 8vo. *Dillingen*, 1740

† Stadlhofer, I. N. Über d. tödtliche Wirkungsart d. Blitzes. 8vo. *Dresden*, 1791

† Stahelin, C. Die Lehre der Messung von Kräften mittelst der Bifilarsuspension. 4to. 204 pp. 9 plates. *Basel*, 1852

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† **Steevens**, J. Account of a Meteor seen at London and other places on the night of Monday, March 22, 1813. 8vo. 3 pp. 1 plate. (*Phil. Mag.* xli. 346.) *London*, 1813

**Stefan**, J. Ueber einige Thermoelemente von grosser elektromotorischer Kraft. 8vo. 3 pp. (*Abd. aus den Sitzungsberichten der Kais. Akad. der Wissenschaften.*) *Wien*, 1865

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† **Stehr**, L. Der Magnetismus als Urkraft in sein. verschied enen Wirkungen geschildert. 8vo. 160 pp. *Berlin*, 1865

**Steiglehner**, Cölestin. *Born August* 17, 1738, *at Sindersbühl, near Nuremberg; died February* 21, 1819, *at Regensburg.*

† Observationes phænomenorum electricorum in Hohen-Gebrachin, etc. 4to. 55 pp. 1 table. *Regensburg*, 1773

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† **Steinberg**, C. Die Dynamide, Elect. Magnetis., Licht, Warme. Verwandschaftslehre, &c. und Stochiometrie-Compendium zu Vorlesungen über allgemeine Chemie von Dr. C. Steinberg. 8vo. 81 pp. *Berlin*, 1846

† **Steindachner**, F. Die Gymnotidie des K. K. Hof-Naturalienkabinets zu Wien (Vorgel. 23 Juli, 1868.) 8vo. 16 pp. 2 plates. (*Sitzb. d. K. Akad. d. Wiss.* Juli Heft, 1868, lviii. Bde.) *Wien*, 1868

**Steinhauser**, Johann Gottfried. *Born September 20, 1768, at Planen Voigtl; died November 16-17, 1825, at Halle.*

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† De magnetismo telluris commentationes math. phys. Sect. ii. De inclinatione acus magneticæ. . . 4to. 17 pp. 1 plate. *Vitteberge*, 1810

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Eight Articles on Magnetism of the Needle, &c., in Voigt's Magazine, viii. 1804 to xi. 1806.

**Steinheil**, Karl August. *Born October 12, 1801, at Rappoltsweiler, Elsass; died October 14, 1870.*

Beschreib. seiner Sternwarte in München. (*Schumacher's Astron. Nachr.* xi. 1834.) *München*, 1834

Beiträge zu Gauss u. Weber's Resultaten aus Beobb. d. magnet. Vereins. 1836-39

† Letter from Munich dated Dec. 23, 1836 (on his Telegraph). (*Magazine of Popular Sciences*, vol. iii.) 1836?

(*Note.—Shaffner does not say that this letter was written by Steinheil himself; neither does he give the title or date of the article in the Magazine, or the place of publication of the Magazine. He says that the letter was "the first published notice of the invention."*)

"Die erste öffentliche Nachricht über die telegraphischen Arbeiten Steinheils."

("*Augsb. allg. Zeit. vom* 23 Juli, 1837 (*ausserord Beil.* No. 356-357 p. 1424) *und zwar in dem Aufsatze, der über den von Prof. W. Alexander (in Edinburgh) gemachten Vorschlag Mittheilung macht.*" *Weitere Nachrichten über den Telegraphen findet man in d. Augsb. allg. Zeit.* 31 Jan. 1838, *Beil.* No. 34, p. 245, *und vom* 17 *Feb. ausserord. Beil.* No. 88-94, pp. 350 u. 358.)

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Notice sur un Télégraphe électrique de son invention. 4to. (*Comptes Rendus*, vii. 390.) *Paris*, 1838

† Ueber Telegraphie ins besondere durch galvanische Kräfte. Eine öffentliche Vorlesung gehalten in der festlichen Sitzung der Königl. Bayerischen Akad. der Wissensch. am 25 Aug. 1838.

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Noch ein Wort über galvan. Telegraphen. *Schumacher's Jahrbuch*, 1839.) *München*, 1839

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Teleskopspiegel galvanoplastisch copirt u. galvan. vergoldet u. über Ruolz' Methode zu vergolden. 4to. (*München gelehrt Anzeig.* xv. 1842.) *München*, 1842

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Organised the Neapolitan, Austrian, and Swiss Telegraphs. 1844-49-51

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† Beschreibung u. Vergleichung der galvanischen Telegraphen Deutchlands nach Besichtigung im April, 1849. 4to. 61 pp. (*Abhandl. der* ii. *Cl. der K. Akad. d. Wiss.* v. Bd. iii. Abth. 4to.) *München*, 1849

Über d. Geschwindigk. d. Fortpflanzung d. galvan. Stroms. (*Schumacher's Astrom. Nachr.* xxix. 1849.) *München*, 1849

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† **Steinigeweg,** J. H. De fluidor. facultate conducendi fluxum electricum. 8vo. 44 pp. 1 plate. *Trajecti ad Rhenum*, 1847

**Steininger.** (*Vide* Chladni and others.)

**Steinschneider.** Der hängende Sarg Mohammeds. 8vo. (*Zeitschrift der deutschen Morgenländischen Gesellschaft*, v. 378, 1851.) *Leipzig*, 1851

† **Stella,** F. M. Articolo di lettera al Selva, sopra una nuova maniera di caricare la Pistola elettrica. 4to. 3 pp. (*Opusc. Scelti*, x. 202.) *Milano*, 1787

† Lettera al G. Morosini; nella quale si espongono alcune circostanze, che accompagnarono un fulmine, nell' atto di colpire la casa de' Nobili Sig. Liruti di Udine. 4to. 4 pp. (*Opusc. Scelti*, xii. 329.) *Milano*, 1789

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**Stendardi,** Carlo Antonio. *Born* 1721, *at Siena; died July* 6, 1764, *at Florence.*

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† **Stephen,** J. The Transference of the Telegraphs to the State. 58 pp. *London*, 1860

**Stepling,** Jos. De pluvia lapidea anni 1763, ad Strkow, pagum Bohemiæ, et ejus causis, meditatio, etc. 8vo. *Pragæ*, 1764

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† **Stevenson,** W. F. Most Important Errors in Chemistry, Electricity, and Magnetism. 2nd edition, revised, &c. 8vo. 68 pp. *London*, 1847

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† **Strada**, F. Famiani Stradæ Romani e Societate Jesu. Prolusiones academicæ, nunc demum ab Auctore recognita, atque suis judicibus illustrata. Editio postrema. 16mo. 619 pp. (*Ideal Magnetic Telegraph*, p. 443 *et seq.*) *Mediolani*, 1626

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† Su l'Ozono atmosferico durante l'ultima epidemia colerosa in Milano. Sperienze e considerazioni—"Mem. letta all' I. R. Ist. Lomb." 8vo. 53 pp. 2 tables. *Milano*, 1856

**Stratico**, Simone. *Born* 1733, *at Zara, Dalmatia; died July* 16, 1824, *at Milan.*

† Osservazioni sopra alcuni fenomeni magnetici. 4to. 15 pp. (*Mem. dell' I. R. Istit. del Reg. Lomb.-Veneto*, vol. iii. anni 1816 e 1817. Parte ii. p. 115.) *Milano*, 1824

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† Untersuchung von der Elektricität. 8vo. 4 pp. (*Schwedische Akad. Abhandl.* an. 1746, p. 154, vol. ix.) *Hamburg*, 1746

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**Struve,** Christian August. *Born January* 28, 1767, *at Görlitz; died November* 6, 1807, *at Görlitz.*

Versuch üb. d. Kunst Scheintodte zu beleben und üb. d. Rettung in schnellen Todesgefahren, e. tabellar. Taschenbuch. 8vo. *Hanover*, 1797

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† Experiments to prove the Existence of a Fluid in the Nerves. 4to. 4 pp. (*Phil. Trans.* xxxvii. 327.) *London*, 1731-32

† **Stukely,** W. On the Causes of Earthquakes 4to. (*Phil. Trans.* 1750.) *London*, 1750

**Sturgeon, William.** *Born* 1783, *at Whittington, near Lancaster; died December* 8, 1850, *at Prestwich, near Manchester.*

† Improvement upon Ampère's and Marsh's Electro-Magnetic Rotation Apparatus. 8vo. 1 p. (*Phil. Mag.* lxii. 237.) *London*, 1823

† Electro-Magnetical Experiments. 8vo. 6 pp. (*Phil. Mag.* lxiii. 95.) *London*, 1824

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† On the Thermo-Magnetism of Homogeneous Bodies; with illustrated experiments. 8vo. 24 and 9 pp. (*Phil. Mag.* x. 1 and 116.) *London*, 1831

† Annals of Electricity, Magnetism, and Chemistry, and Guardian of Experimental Science, conducted by W. Sturgeon. 8vo. Plates. *London, &c.* 1836—1843

(*Note.—The date in the title-page of* 1*st vol. is* 1837*; that of the last number is October*, 1843. *There are* 10 *vols. and four monthly numbers. It contains very many papers by himself.*)

† Experimental and Theoretical Researches in Electricity, Magnetism, &c. Fourth Memoir: On Marine Lightning Conductors. 8vo. 31 pp. Plate. (*Ann. of Electricity*, iv. 161.) (*Roget's copy.*) *London*, 1839

† On Successions or Series of Electric Currents. Letter to Henry. 8vo. 1 p. (*Ann. of Electricity.*) (*Roget's copy.*) *London*, 1839

† Supplementary Note to Article xvi. (*i.e.* . . . on Marine Lightning Conductors). 8vo. 2 pp. (*Ann. of Electricity*, iv. 235.) *London*, 1839

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† Description of an Electrical Machine made by Watkins and Hill . . for the Royal Victoria Gallery, Manchester. 8vo. 2 pp. Plate. (*Ann. of Electricity*, iv. 504.) (*Roget's copy.*) *London*, 1840

† Letter to W. Snow Harris. 8vo. 4 pp. (*Ann. of Electricity*, v. 220.) *London*, 1840

† Address to the Readers of the Annals of Electricity, Magnetism, and Chemistry, &c. May, 1841. 8vo. 3 pp. (*Ann. of Electricity*, vi. 500.) (*Roget's copy.*) *London*, 1841

† Lectures on Electricity, delivered . . at Manchester. 12mo. 240 pp. Cut. *London*, 1842

Annals of Philosophical Discovery and Monthly Reporter of the Progress of Practical Science. 8vo. *London*, 1843 *to* —

† A course of Twelve Elementary Lectures on Galvanism. 12mo. 231 pp. 100 engravings. *London*, 1843

† Scientific Researches, Experimental and Theoretical, in Electricity, Magnetism, Galvanism, Electro-Magnetism, and Electro-Chemistry. Published by subscription. La. 4to. 563 pp. 18 plates. *Bury*, 1850

Scientific Memoirs; comprising the Scientific Investigations, Observations, Discoveries, &c. of William Sturgeon, in Electricity, Magnetism, and Electro-Chemistry, within the last twenty-five years.
(*Note.—Vide preceding entry.*)

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† **Sturgeon** and **Backhofner.** On a Massive Iron Core, or better, a Slitted Iron Hollow Cylinder, or still better, a Bundle of separate Varnished Iron Wires enclosed in a Hollow Cylinder. 8vo. (*Sturgeon's Ann.* i. 481.) *London*

(*Vide* also Cartwright and Sturgeon.)

(*Vide* also Barlowe.)

(*Vide* also Faraday and Sturgeon.)

**Sturm,** Johann Christoph. *Born November* 3, 1635, *at Hippolstein, Pfalz-Neuberg; died December* 25, 1703, *at Altdorf.*

† Collegium experimentale sive curiosum. Pars prima. 4to. 168 pp. and 122 pp. Auctaria. *Norimbergæ*, 1676

† Collegii experimentalis sive curiosi. Partes prima et secunda. 4to. 168, 122, and 256 pp. *Norimbergæ*, 1685

Physica electiva, sive hypothetica. Tom. i. 4to. *Norimbergæ*, 1697

Epistola invitatoria ad observationes magneticæ variationis instituendas. (*Opusc. Act. Erudit. Lyps.* F. i. p. 60.)

† **Sue,** J. J. Recherches physiologiques et expérimentales sur la Vitalité. Lues à l'Institut National de France, le 11 Messidor, an. v. de la République. Suivies d'une nouvelle édition de son opinion sur le Supplice de la Guillotine; ou sur la douleur qui survit à la décollation. 1re édition. 8vo. 76 pp. 4 plates. *Paris*, 1797

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† Physiolog. Untersuchungen u. Erfahrungen über d. Vitalität, und Abhandl. üb. den Schmerz der Enthauptung, a. d. Franz. von J. C. F. Harles. 8vo. Plate. *Nürnberg*, 1799

† **Sue,** J. J. (and others). Recherches Physiologiques, et expériences sur la Vitalité et le Galvanisme. 3e édition. 8vo. 86 pp. 4 plates. *Paris*, 1803

(*Note.—This edition contains, at* p. 77, "*Précis des expériences Galvaniques d'Aldini;*" *at* p. 83, "*Note de l'influence Galvanique sur la fibrine du Sang,*" *par C. F. Circaud; at* p. 84, *a notice concerning* "*la Nature du Galvanisme,*" *according to the ideas and experiments of Creve, signed by Witmann. The work of J. J. Sue himself is a mere reprint of his first edition.*)

† **Sue,** P. (aîné). Geschichte des Galvanismus; aus dem Franzn. . . mit Anmerkungen und Zusätzen von Aug. Clarus. Erster Theil. 8vo. 250 pp. (*Volta's copy.*) *Leipzig*, 1802

† Histoire du Galvanisme, et Analyse des différents ouvrages publiés sur cette découverte, depuis son origine jusqu'à ce jour. Première et seconde parties. 8vo. 1re partie, 335 pp.; 2e partie, 492 pp. 1 plate. *Paris*, 1802

† Geschichte des Galvanismus; aus dem Franzn. . . mit Anmerkungen und Zusätzen von Aug. Clarus. Zweiter Theil. 8vo. 208 pp. (*Volta's copy.*) *Leipzig*, 1803

† Geschichte des Galvanismus nach Sue, frey bearbeitet, nebst Zusätzen und eine Abhandlung über die Anwendung des Galvanismus in der praktischen Heilkunde. Zwei Abtheilungen von D. J. C. L. Reinhold. 8vo. 1 Abth. 328 pp.; 2 Abth. 176 pp. 2 plates. (*Volta's copy.*) *Leipzig*, 1803

† Histoire du Perkinisme. 8vo. *Paris*, 1805

Sue's Histoire du Galvanisme, vol. iii. pp. 62—92, contains indications o many writings on Medical Galvanism which have not been registered.

Histoire du Galvanisme, et Analyse des différents ouvrages publiés sur cette découverte, depuis son origine jusqu'à ce jour. Troisième et quatrième parties. 8vo. 3e pt. 379 pp.; 4e pt. 362 pp. *Paris*, 1805

**Sulzer,** Johann Georg. *Born October* 16, 1720, *at Winterthur, Switzerland; died February* 25, 1779, *at Berlin.*

Theorie d. angenehmen u. unangenehmen Empfindungen. 8vo. *Berlin*, 1762

**Sulzer,** Johann Georg.—*continued.*

† Nouvelle Théorie des Plaisirs, avec des réflexions sur l'origine du Plaisir, par M. Koestner. 8vo. 363 pp. 1767

(*Note.—Various articles collected from the Berlin Academy by an unnamed Editor under the above title. Various changes and corrections. The celebrated note is at* p. 155. *Elice, Saggio,* 2nd edition, p. 32, *says that Sulzer made the experiments in* 1752, *without indicating the source of his information. Seyfer, Geschichte,* p. 9, *says that Sulzer made the discovery in* 1760, *and refers to the "Mém. de l'Acad. de Berlin"* (*pro*) 1760, *"Theorie der angenehmen und unangenehmen Empfindungen. Berlin,* (*printed*) 1762, p. 82.")

**Sundelin,** K. Anleitung zur medicinischen Anwendung der Elektricität und des Galvanismus. 2 plates. *Berlin,* 1822

**Svanberg,** Adol. Ferd. Magisterprogram. Försök att förklara orsaken till den dynamiska thermo-electriciteten. *Upsala,* 1851

Försök att Förklara Orsaken till den dynamiska Thermo-Elektriciteten. Inbjudningsskrift. 4to. 27 pp. (*Kongl. Academiska Boktryckeriet.*) *Upsala,* 1851

**Svanberg,** Gustaf. "Einer d. ersten Theilnehmer an d. Göttinger magnet. Beobachtungen: errichtete schon 1835 ein magnet. Observatorium in Upsala u. stellte darin Beob. an die gedruckt sind in Gauss u. Webers Resultate. . . . (*Vide Poggendorff,* ii. 1052.)

**Svanberg,** Praes. et **Zeipel,** Resp. De vi electro-magnetica observationes. 4to. 9 pp. (*Reg. Acad. Typographus.*) *Upsala,* 1851

† **Swaim,** J. Extraits de Rapports et Lettres, sur le système de Télégraphie de Guerre de M. J. Swaim. 8vo. 38 pp. *Paris,* 1859

**Swammerdam.** Biblia naturæ (à la fin du xvii. siècle). Tom. ii. p. 849.

(*Note.—Contains the account of the Experiments made before the Grand Duke of Tuscany in Galvanism. Vide Du Bois-Reymond,* vol. i. p. 43, *for an account of Swammerdam's experiment, given by Duméril in Annales des Sciences Naturelles,* 2e série, Zoologie, tom. xiii. p. 65 (4 Février, 1840.) *Another Experiment is also referred to. Du Bois-Reymond shows that Duméril's account of the Experiments is incorrect. He quotes the book, &c., thus: "Johannis Schammerdamii Amstelodamensis, Biblia Naturæ. Hollandisch und Lateinisch von* Gaubius, tom. ii. Leidæ, 1738, fol. p. 839;" *and also "Bibel der Natur. Aus dem Holländischen übersetzt von* Reiske. Leipz. 1752, fol. s. 300." *Matteucci,* p. 3, *refers to the passage in Swammerdam's Biblia Naturæ,* tom. ii. p. 849 (*to which Duméril drew attention*), *and describes the Experiments, and says that the Book appeared toward the* middle *of the fourteenth century. Figuier's date,* end *of fourteenth century, wrong. Weber, Cat. Berlin* (1870 ?), p. 79, *has "Swammerdam, J. Biblia Naturæ, sive hist. insectorum. Belgice et Lat. acced. interp.* H. D. Gaubius, 2 vols. *cum multis Tabs. &c. in fol.* 1737-38.")

**Swanberg.** (*Vide* Svanberg.)

**Swieten,** Van. Commentaria in Herm. Boerhaave aphorismos de cognoscendis et curandis morbis. L. B. p. 382. 4to. 1753

(On the course of Lightning.) "Lettera al Bammacari." (*From Toderini,* p. 34.)

**Swinden,** Jan Hendrik Van. *Born June* 8, 1746, *at Haag; died March* 9, 1823, *at Amsterdam.*

Tentamina theoriæ mathematicæ de phænomenis magneticis, sistens principia genera. . . . 4to. Figures and 7 tables. *Lugd. Bat.* 1772

De paradoxo phænomeno magnetico; magnetem fortius ferrum purum quam alium magnetem attrahere. 4to. (*Neue Abhandl. der Baierischen Akad. Philos.* i. 351.) *München,* 1778

**Swinden**, Jan Hendrik Van.—*continued.*

Recherches sur les Aiguilles aimantées, et sur leurs variations singulières—régulières (both terms are given, one at p. 378, the other at p. 90). 4to. (*Mém. de Mathémat. et de Phys.* viii. p. 1.) *Paris*, 1780

(*Note.—In his "Recueil," p.* xxvi *of* vol. i. *he calls this his second "ouvrage couronné en* 1777 *par l'Académie de Paris, et publié en* 1730 *dans le* 8e vol. *des Mémoires présentés par des Savants étrangers" . . porte le titre de "Recherches sur les Aiguilles aimantées," et contient plus de* 600 *pages.*)

Marche de l'Aiguille magnétique observée pendant l'Aurore-boréale du 26 Février, 1780) à la Haye et à Franeker. 4to. (*Acta Acad. Petropolitanæ*, in: 1780, pt. i. *Hist.* p. 10.) *Petropol.* 1780

De analogia electricitatis et magnetismi. 4to. (*Neue Abhandl. der Baierischen Akad. Philos.* ii. 1.) *München*

(*Note.—His French translation of this, with corrections, is the first Memoir* (*and* 1*st vol.*) *of his "Recueil de Mémoires sur l'Analogie de l'Electricité et du Magnétisme.*)

† Recueil de Mémoires sur l'Analogie de l'Electricité et du Magnétisme, couronnés et publiés par l'Académie de Bavière. Traduits du latin et de l'allemand, augmentés de notes, et de quelques dissertations nouvelles. 3 vols. all dated 1784. 8vo. *La Haye*, 1784

1. Analogie de l'Electricité et du Magnétisme, ou Recueil de Mémoires . . . 1785; 2. Recueil de Mémoires sur l'Analogie de l'Electricité et du Magnétisme . . . 1784.

(*Note.—This copy has two title-pages, as above.*)

Positiones Physicæ. Tom. 1er. (*From Opusc. Scelti*, x. 7.) *Harderovici*, 1786

**Sylvester**, C. Articles on Galvanism and Voltaism in Rees's Cyclopædia. 4to. *London*, 18—

† **Symes**, R. Fire analysed . . and manner . of making Electricity medicinal and healing. . . 8vo. 87 pp. *Bristol*, 1771

**Symmer**, Robert. New Experiments and Observations concerning Electricity . . 4to. (*Phil. Trans.* 1759.) *London*, 1759

† **Szafarkiewicz**, W. Beobachtungen über d. Erregung von Wärme oder Kälte beim Uebergang des galvanischen Stromes zwichen heterogenen Leitern. 8vo. 22 pp. 1 plate. *Breslau*, 1853

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**Tabareau.** On the Theories of Heat, Light, . . Magnetism, and Electricity. 8vo. *Lyon*, 1825

**Tachard, Guy.** *Born in Prov. Guienne; died* 1714, *at Bengal.*

Voyage de Siam des Pères Jésuites, envoyés par le Roy aux Indes et à la Chine, avec leurs observations astronomiques et leurs remarques de physique, de géographie, d'hydrographie, et d'histoire, 4to. (*Daily Variation of Declination.*) *Paris*, 1689

Second Voyage de Siam. (On Declination.) (*From Hartsocker*, p. 172.)

† **Taerg, M.** Letter . . to Mr. Tilloch on the Preparation of Composts for land, and on the Composition of Potass. 8vo. 2 pp. (*Phil. Mag.* xxv. 353.) *London*, 1806

† On the Constituent principles of Potash. 8vo. 1 p. (*Phil. Mag.* xxx. 173.) *London*, 1808

**Taisnier, Jean.** *Born* 1509, *at Ath, Hennegau; died* 1562 (*shortly after*).

† De Natura Magnetis et ejus effectibus. . . Sm. 4to. 84 pp. Portrait (in wood-cut. (*Apud Joannem Birckmannum.*) *Coloniæ*, 1562

(*This copy contains his name, and signed Dedication. The first printed edition of Petrus Peregrinus is dated* 1558. *Taisnier's only edition was printed in* 1562.)

De Natura Magnetis . . English translation by Eden. (*From Watt.*) *London*, 1579 ?

**Tait.** (*Vide* Thomson and Tait.)

† **Tanchou.** Enquête sur l'authenticité des phénomènes électriques d'Angélique Cottin. 8vo. 54 pp. *Paris*, 1846

**Tan (or Ten) Eyck, Dr.** A work on the Application of Electro-Magnetism to Mechanical purposes. *American*

(*Vide* also Henry and Ten Eyck.)

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**Thomson,** Dr. Thomas. *Born April* 12, 1773, *at Crieff, Perthshire; died July* 2, 1852, *at Kilmun, Argyllshire.*

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**Thomson,** (now Sir) William. *Born June* 25, 1824, *at Belfast, Ireland.*

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† **Tilas**, D. Von einem Donnerschlage in Oesterwahla. Kirchspiele und Waazmannlands Hauptmannschaft, im J. 1740. 8vo. 6 pp. (*K. Schwed. Akad. Abh.* iv. 43.) *Hamburg*, 1742

† **Tilden**, J. An Account of a Singular Property of Lamprey Eels. 4to. (*Mem. Amer. Acad.* Old Series, iii. part ii. p. 335.) *Boston, U.S.* 1815

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**Tilloch**, Alexander. *Born February* 28, 1759, *at Glasgow; died January* 26, 1825, *at Islington, London.*

Letter to Pictet. Answer to a Letter from Paris on Volta's Experiments. 8vo. (*Bibliothèque Britan.* No. 144, p. 390.) *Genève*, 1801

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"Times"—Editor. On Export of Telegraphic Wire. "Telegraphic Wire.—Telegraphic wire has become rather an important article of commerce. During the last ten years it has been exported to the following values:—1853, £72,584; 1854, £81,566; 1855, £163,737; 1856, £80,076; 1857, £302,246; 1858, £224,708; 1859, £742,306; 1860, £251,712; 1861, £214,441; and 1862, £321,044. We have thus in the ten years an aggregate export of the value of £2,474,410. *London, August* 22, **1863**

† **Tinelli**, L. Stralcio di Lettere di L. Tinelli . . di Nuova York, al di lui fratello Carlo in Milano. (Data 30 Luglio, 1839). 8vo. 3 pp. (*Bibl. Ital.* xcvii. 131.) *Milano*, **1840**

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Sur la nature du fluide électrique. 4to. (*Journ. Phys.* xlvii. 1798.) *Paris*, **1798**

† **Tip**, Joh. Over de electrische warmte-en lichtverschijnselen die door de rigting des stroom̃s gwijzigd word. 8vo. 72 pp. 1 plate. *Utrecht*, **1854**

**Tipaldo.** Biografia degli Italiani illustri nelle scienze. 8vo. (*Milano Stella*, "*Saranno circa* 8 *Volumi . . ne son pubbl.* 7.") *Venezia*, **1834**

**Tiraboschi.** Storia della letteratura Italiana di Girol. Tiraboschi. 8vo. (In tom. iv. p. 285, and viii. p. 384.) *Milano*, **1823**

(*Note.—Many quotations on the history of the Mariner's Compass, &c.*)

**Tissier.** Mém. pour établir la Surphosphoréscence des Corps. 8vo. *Lyon*, **1807**

Notice sur l'Aurore boréale qui a paru à Lyon le Vendredi, 7 Janv. 1831. Lu à la Société d'Agriculture 14 Jan. 1831. 8vo. *Lyon*, **1831**

**Tissot.** Tract. de Variolis, Apoplexia et Hydrope. 12mo. *Lausanne*, **1761**

Epistol. ad Hallerum. (*From Bertholon.*)

**Tith**, J. D. Progr. de electrici experimenti lugdunensis inventore primo. 4to. (*Vide* Titius.) *Witteberg*, **1771**

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**Toaldo**, Giuseppe. *Born July* 11, 1719, *at Pianezza, near Vicenza; died November* 11, 1797, *at Padua.*

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(*Note.—This Treatise was often reprinted.*)

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Giornali Astro-meteorologici. 8vo. *Padova*, **1773-98**

† Dell' uso dei Conduttori metallici. . . Apologia colla Descrizione del Conduttore . . di Padova. 4to. 32 pp. 1 plate. *Venezia*, **1774**

† Del Conduttore elettrico posto nel Campanile di S. Marco in Venezia. . . (1a ed.) 4to. 37 pp. 1 plate. *Venezia*, **1776**

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(*Note.—This work contains his "Informazione al popolo" of* 1772, *including his translation of Saussure's "Manifesto." His "Dell' uso dei Conduttori . . Apologia . . . of* 1774, *colla Descriz. del Cond. di Padova." His "Del Condutt. . . di S. Marco," &c. of* 1776. *His "Relazione del Fulmine caduto nel Condutt. della Specola, Padova," of* 1777. *His "Notizia del Fulmine . . nella Torre dell' università, Padova." His "Appendice sui fatti . . recenti,"* 1778 *: new matter. It also contains an Italian translation of Barbier's "Considérations en général." . . which is a memoir appended to Barbier's French translation of this work of Toaldo. This Italian translation is by a printer, and not dated.*)

† Saggio meteorologico. Della vera influenza degli Astri sulle Stagioni e mutazioni di tempo. 2da ed. 4to. 230 pp. 4 tables. *Padova*, 1781

Osservazioni meteorologiche del mese di Giugno, 1783. Con un Discorsetto sulla Nebbia straordinaria ed influenza de' Fulmini nella corrente stagione. Sm. 8vo. 13 pp. *Padua*

† Osservazioni meteorologiche del mese di Giugno, 1783, con un discorsetto sulla Nebbia straordinaria ed influenza de' Fulmini nella corrente stagione. 4to. 9 pp. (*Opusc. Scelti*, vi. 265.) *Milano*, 1783

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† Fenomeno singolare d'un Fulmine descritto, e proposto all' esame de' fisici. 4to. 4 pp. (*Opus. Scelti*, vii. 35.) *Milano*, 1784

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† Appendice: Riflessioni sopra i colpi di fulmine (alla Memoria del Marzari, "Descrizione d'una tempesta di fulmini.") . . . Letta 8 Feb. 1787. 4to. (*Vide* Marzari.) (*Saggi dell' Accad. di Padova*, iii. 212, pt. i. *Padova*, 1794

† Dei moti del Barometro nei Temporali. Ricevuta 28 Decemb. 1796. 4to. 5 pp. (*Mem. Soc. Ital.* viii. pt. i. p. 11.) *Modena*, 1799

† Elogio di Giuseppe Toaldo scritto da A. Fabbroni. Ricevuto 22 Ottob. 1798. 4to. 19 pp. (*Mem. Soc. Ital.* tom. viii. pt. i. p. 29.) *Modena*, 1799

† Completa Raccolta di Opuscoli, osservazioni e notizie diverse contenute nei Giornali Astro-Meteorologici dall' anno 1773 sino all' anno 1798 del fu Sig. G. Toaldo . . coll' aggiunta di alcune altre sue produzioni meteorologiche e pubblicate ed inedite. 8vo. 4 volumes. Vol. i. 36 and 248 pp. Portrait and 1 plate (at p. 17). Vol. ii. 264 pp. Vol. iii. 306 pp. Vol. iv. 296 pp. *Venezia*, 1802

(*Note.—The first three vols. are dated* 1802, *the fourth* 1803. *A fifth was promised (at p.* 289 *of the fourth), but it never appeared. The editor is Tiato. An "Elogio di G. Toaldo scritto da A. Fabbroni," is at* p. 7 *of* vol. i. *Another plate is referred to, but was not printed. Tiato was assisted by Chiminello.*)

Some MSS. on Electrical Matters, &c., in the Seminario, Padova.

(*Vide* also Lorgna and Toaldo.)

(*Vide* also Marzari C. and Toaldo.)

† **Toaldo,** G. (or Anonym.) and **Saussure.** Della maniera di preservare gli edifizi dal Fulmine: Informazione al popolo. 4to. 19 pp. 1st edition. *Venezia,* 1772

(*Note.—Annexed is his translation of Saussure's Exposition under the title "Manifesto ossia Breve esposizione;" the paging being continued from* 20 *to* 38. *The date of Saussure's work is Geneva,* 1771.)

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**Tomcsányi,** Adam. Diss. de theoria phænomenorum electricitatis galvanianæ. 8vo. *Budæ,* 1809

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**Torre,** Giovanni Maria della. *Born* 1713, *at Rome; died March* 7, 1782, *at Naples.*

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(*Note.—On Magnetism, Phosphorescence, Igneous Meteors, &c., as effects of the sun's rays.*)

Scienze della Natura. . . 2 vols. 4to. 1750

(*Note.—This is a reprint by Ricurti, with new matter on Magnetism and Electricity added by Della Torre to his other accounts.*)

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† **Toscanelli,** C. M. Descrizione del Telegrafo. 8vo. 16 pp. 4 plates. *Torino,* 1806

**Tosetti,** G. B. Nuova macchina atta al raccoglimento delle due elettricità. 3 pp. 1 plate (of 4 figures). (*In Biblioteca Marciana, Venice.*)

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† Tables des Matières contenues dans les Vols. i. ii. iii. iv. v. de la 4me Série des Mém. de l'Acad. 8vo. *Toulouse,* 1851-55

Table alphabétique des matières contenues dans les 16 premiers Tomes des Mém. de l'Acad. Impériale. 8vo. 83 pp. *Toulouse,* 1854

**Tour.** (*Vide* Du Tour.)

† **Tourdes** G. Relation médicale de l'accident occasionné par la foudre, le 13 Juillet, 1869, au pont du Rhin, près de Strasbourg. 8vo. 32 pp. *Paris,* 1869

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† **Toutain.** Electricité Médicale. Nouv. méthode d'application de l'électricité pour la guérison des maladies. 12mo. 352 pp. *Paris,* 1870

† **Towson**, J. T. Practical information on the Deviation of the Compass, for the use of Masters and Mates of Iron Ships. Published by order of the Committee of Privy Council for Trade. 8vo. 122 pp. *London*, 1863

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**Tozzetti**, Targioni. *Born September* 11, 1712, *at Florence; died January* 7, 1783, *at Florence.*

Atti e Memorie inedite dell'Accad. del Cimento e Notizie, Aneddoti dei progressi della scienza in Toscana. . . Elett. tom ii. p. 421; Calamita, p. 539; Ambra, &c. 546. 3 vols. 4to. *Firenze*, 1780

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† **Traill** (of Liverpool). Expériences et Observations sur le Thermo-Magnétisme. 4to. 26 pp. *Genève*, 1828

(*Note.—The first part is an extract only of the researches communicated to the Geneva Society in* 1827, *and printed in their Mém.* tom. iv. p. 94, 1828. *The second part translated entire.*)

**Tralles**, Johann Georg. *Born October* 15, 1763, *at Hamburg; died November* 18-19, 1822, *at London.*

Beyträge zur Lehre von der Elektricität. 4to. 14 pp. (*Volta's copy.*) *Berne*, 1786

(*Note.—A copy of a MS. letter of Tralles to Volta, dated 2nd November*, 1788, *on the Electricity of Waterfalls, made for me by the Count Zanino Volta, is bound with this work.*)

Über d. Elektricität d. Staubbachs, u.s.w. 8vo. (*Gren's Journ.* i. 1790.) *Leipzig*, 1790

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† **Tredwey**, Robert. Part of a Letter to Dr. Leonard Plukenet, dated Jamaica, February 12, 1696-7, giving an account of a great piece of Ambergriese, thrown on that Island; with the opinion of some there about the way of its production. 4to. 2 pp. (*Phil. Trans.* xix. *for* 1695-96-97, p. 711.) *London*, 1698

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**Tremery**, J. L. Observations sur les aimants elliptiques. (*Journ. des Mines*, tf. 1797.) 1797

**Tremeschini**. Télégraphe controleur. (*From* Du Moncel.)

**Tressan**, Louis Elisabeth de la Vergne. *Born November* 4, 1705, *at Le Mans; died October* 31, 1783, *at St. Lew.*

† Essai sur le Fluide Electrique considéré comme agent universel. 2 vols. 8vo. Vol. i. xl. and 396 pp. Vol. ii. 487 pp. *Paris*, 1786

**Tressan**, De. Partie physique du Voyage autour du Monde de la Frégate la *Vénus*. Observations Météorologiques et Magnétiques. 5 vols. 8vo. Carte et Table. 1842-44

(*Vide* Du Petit Thouars.)

**Treviranus**, A. C. Über gewisse in Westpreussen u. Schlesien angebl. mit einem Gewitterregen gefallene Saamen Körner. 8vo. *Breslau*, 1823

**Treviranus,** Gottfried Reinhold. *Born February* 4, 1776, *at Bremen; died February* 16, 1837, *at Bremen.* (*Poggendorff*, ii. 1132.)

Einfluss d. galvan. Agens u. einiger chem. Mittel auf d. vegetative Leben. (*Nordisches Archiv f. Natur- und Arzneiw.* 1st Bd. 2tes Stück; *and in Gilbert's Ann.* vii. 1801.) *Kiel*, 1800

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**Treviso Giornale.** Giornale sulle Scienze e Lettere delle Provincie Venete. Treviso. 18 vols. 8vo. *Treviso*, 1821-30
(*Note.—Was suspended after the number for June*, 1829, *and was renewed in November*, 1829; *ceased in October*, 1830.)

**Trew,** Abdias. De meteoris. (*From Pogg.* ii. 1134.) *Argentorat.* 1654

† **Triewald,** S. Von. Versuch eines künstlichen Nordlichtes. 8vo. 2 pp. 1 plate. (*K. Schwed. Akad. Abh.* vi. 103.) *Hamburg*, 1744

† **Tripier,** A. Manuel d'Electrothérapie. Exposé pratique et critique des applications médicales et chirurgicales de l'électricité. 8vo. 624 pp. *Paris*, 1861

† La Galvanocaustique chimique. 8vo. 19 pp. (*Ext. des Archives générales de Médecine de* Janvier, 1860.) *Paris*, 1860

† **Troili,** Domenico. *Born April* 11, 1722, *at Macerata; died February* 14, 1792, *at Macerata.*

† Della caduta di un Sasso dall' aria. 4to. 120 pp. *Modena*, 1766

† Il Ragionamento della caduta di un Sasso dall' aria difeso da una lettera apologetica. 4to. 71 pp. *Modena*, 1767

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(*Note.—Grimelli*, "*Storia . .*" *calls the date* 1774, *and the place Modena.*)

† **Trolliet.** Rapport sur les Paragrêles présenté à la Société d'Agriculture du Rhône. 8vo. 18 pp. 1 plate. *Lyon*, 1825

Notice sur les Paragrêles, par M. le Dr. Troillet, au nom d'une Commission. 8vo. (*Extrait du Précurseur*, 15 *et* 16 Mai, 1827.) *Lyon*, 1827

† **Trombelli,** Giangrisostomo (or J. C.). *Born* 1697, *near Nonantola; died January* 24, 1784, *at Bologna.*

De Acus nauticæ inventore ad F. M. Zanottum. 4to. 39 pp. (*Comment. de Bonon. Scient. Instit.* tom. ii. pars iii. p. 333.) *Bononiæ*, 1747

**Trommsdorf,** Johann Bartholomäus. *Born May* 8, 1770, *at Erfurt; died March* 8, 1837, *at Erfurt.*

Expériences Galvaniques. 8vo. (*Crell's Chemisch. Annalen a.* 1801. 4to. Cahir, p. 337. *Extrait du Journ. de Chim. de Van Mons*, i. 41, and p. 98.) *Helmstadt*, 1801

† Geschichte des Galvanismus; oder der Galvanischen Elekt. vorzüglich in chemischer Hinsicht. Besonders abgedruckt aus J. B. Tromsdorff, Chemie im Felde der Erfahrung. 8vo. 260 pp. *Erfurt*, 1803

Geschichte des Galvanismus. 8vo. (*From Ersch*, p. 119.) *Erfurt*, 1808

† Grundritz der Physik als Vorbereitung zum Studium der Chemie. 8vo. 488 pp. 2 plates. *Gotha*, 1817

**Troostwijk**, Adriaan Paets Van. *Born March* 1, 1752, *at Utrecht; died April* 3, 1837, *at Breukelen.*

**Troostwijk**, A. P. and **Deiman**. Verhandl. over de geneeskonstige electriciteit mit J. R. Deimann. 4to. (*Verhandl. Genootsch te Rotterdam*, viii. 1787.) *Rotterdam*, 1787

La Réponse à la question proposée par la Soc. de Phys. Expérimentale à Rotterdam, "Quelle influence l'Electricité naturelle et ses différents états dans notre atmosphère ont elles sur le corps humain?" (*Mém. de la Soc. de Phys. expér. Rotterdam*, tom. viii.) 1787

Antwoord op de Vraage, welken invloed heeft de natürlyke electriciteit en derzelver verschillende verdeeling in onzen dampkring op gezonde en ziekelüke ligchaamen? In welke ongesteldheden en ziekten is de konstige electriciteit dienstig tot geneezing of verligting? Op wat wüze werkt zü tot det einde? En welke is de beste manier om'er zig mit dat ogmerk van te bedienen? (*Verhandl. van het Genootsch te Rotterdam*, viii. p. 63.) *Rotterdam*

† **Troostwijk, Van, et Krayenhoff.** De l'Application de l'Electricité à la Physique et à la Médecine. Ouvrage Couronné. 4to. 319 pp. 4 plates. *Amsterdam*, 1788

Verhandeling over zekere onderschiedene Figuuren, welcken door beide soorten van Electriciteit worden voordgebragt, (1s Band *des Algem. Magazyn Nat. und übers. in den Leipziger Samml. zur Phys. u. Naturg.* iv. Band, 4 Stuck.)

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**Trousseau et Pidoux.** Traité de thérapeutique et de matière médicale. Tom. i. *Paris*, 1847

† **Trubner**, N. Bibliographical Guide to American Literature. A classed list of Books published in the U.S. during the last forty years, with Biographical Introduction, Notes, and Index. 8vo. 554 pp. *London*, 1859

**Trullard.** Sur une nouvelle manière de faire les Aimants artificiels d'une très grande force, sans . . l'aimant naturel. 8vo. (*Mém. de l'Acad. de Dijon*, tom. i. p. 66.) *Dijon*, 1769

† **Tschermak**, G. Über den Meteorstein von Golpara und über die leuchtende Spur der Meteore. 8vo. 11 pp. (*Sitzb. d. K. Akad. d. Wissen.* lxii. 1870.) *Wien*, 1870

† Nachrichten über den Meteoritenfall bei Murzuk im Dec. 1869. Mitgetheilt von G. Tschermak. 8vo. 3 pp. (*Sitzb. d. K. Akad.* Juni 1870, lxii.) *Wien*, 1870

† Der Meteorit von Lodran. 8vo. 11 pp. 1 Taf. (*Sitzb. d. K. Akad. d. Wiss.* Apr. 1870, lxi.) *Wien*, 1870

† **Tschudi**, Von J. J. Beobachtungen über Irrlichter (Mitgetheilt von Fenzl.) dated Barbacina 5 Jän. 1857. 8vo. 2 pp. (*Sitzungsberichten d. Wien Acad.*) *Wien*

† Über einige electr. Erscheinungen in den Cordilleras der Westküste Süd-Amerikas. 8vo. 16 pp. (*Wien Acad. Sitzb.* vol xxxvii. No. 20.) *Wien*

**Turchini.** Sopra due elettro-calamite a rocchetto di grandi dimensioni. 8vo. 1 p. (*Rendiconto . . R. Accad. dei Georgofili*, p. 180, Gennajo, 1855.) *Firenze*, 1855

**Turin Acad.** Miscellanea philosophica Societatis privatæ. Tomus primus (ligna edit.). 4to. 146 pp. Conspectus and 4 plates. *Augustæ Taurinensis*, 1759

1st Series.—Miscellanea Taurinensis. 4 vols. Tom. ii. al tom. v. sono per gli anni 1760 al 1773. Questi 4 vol. hanno anche il titolo "Mélanges de Philosophie," &c. (Tom. i. *is the above Miscellanea Philosophica.*)

2nd Series.—Mémoires de l'Acad. Royale des Sciences. 6 vols. per gli anni 1784 al 1799 (no printed dates).

3rd Series.—Mémoires de l'Acad. des Sciences, Littérature, et B. Arts de Turin. 10 vols. Per gli anni 1802-3 al 1812-13.

**Turin Acad.**, Miscellanea philosophica.—*continued.*

4th Series.—Mémoires de l'Acad. Royale des Sciences de Turin. 11 vols.

(*Note.*—*The vol. for* 1813 *and* 1814 *was printed in* 1816, *and is called* vol. xxii. *The ten following vols. are numbered* xxiii. *to* xxxii. *and were printed in various years between* 1818 *and* 1828 *inclusive, and continued to* 1835.)

Another Series begins in 1839. Vols. i. and ii. are dated 1839 and 1840.

† **Turini**, P. Considerazioni intorno all' Elettricità delle Nubi. 4to. 68 pp. *Venezia*, 1780

**Turkeim**, W. Über Electricität Gym. Prgm. *Breslau*, 1834 ?

**Turnbull**, L. Lectures on the Electro-Magnetic Telegraph. 8vo. *Philadelphia*, 1852

† Electro-Magnetic Telegraph; with an historical account of its rise, progress, and present condition. 2nd edition, revised, &c. 8vo. 264 pp. 2 plates. *Philadelphia*, 1853

† **Turnbull** and **McRea.** Railway Accidents, and the Means by which they may be prevented, by the use of the Electro-Magnetic Safety Apparatus. 8vo. 64 pp. *Philadelphia*, 1854

**Turner**, Ed. Elements of Chemistry by Liebig and Gregory. 8vo. *London*, 1847

† **Tuxen**, J. C. Die Deviation der Compassnadel, &c. 8vo. 66 pp. *Stettin*, 1856

† **Tyer**, Ed. Compagnie des Signaux électriques. Système Tyer. 8vo. 22 pp. (*Ext. Journal l'Ingénieur.*) *Paris*, 1855

**Tylee**, J. P. Observations on Galvanism. 12mo. *London*, 1848

† **Tyndall**, John. On Diamagnetism and Magne-crystallic Action. 8vo. 24 pp. (*From Phil. Mag. for* September, 1851.) *London*, 1851

† On the Laws of Magnetism. 8vo. 31 pp. (*Phil. Mag. for* April, 1851.) *London*, 1851

On the Reduction of Temperatures by Electricity. 8vo. (*From Lieber's Cat.* 1865.) *London*, 1862

The Polymagnet. 8vo. Plate. (*From Lieber's Cat.* 1865.) *London*, 1855

Further Researches on the Polarity of the Diamagnetic Force. 4to. (*From Lieber's Cat.* 1865.) *London*, 1855

On the Nature of the Force by which Bodies are repelled from the Poles of a Magnet. 4to. (*From Lieber's Cat.* 1865.) *London*, 1855

† On the Relation of Diamagnetic Polarity to Magne-crystallic Action. 8vo. 13 pp. (*Phil. Mag. for* February, 1856.) *London*, 1856

† Researches on Diamagnetism and Magne-crystallic Action; including the Question of Diamagnetic Polarity. 8vo. 361 pp. *London*, 1870

† Notes of a Course of Seven Lectures on Electrical Phenomena and Theories, delivered at the Royal Institution of Great Britain, April-June, 1870. 8vo. 40 pp. *London*, 1870

† **Tyndall** and **Knoblauch.** On the Deportment of Crystalline Bodies between the Poles of a Magnet. 8vo. 6 pp. (*Phil. Mag. for* March, 1850.) *London*, 1850

(*Vide* also Knoblauch and Tyndall.)

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**ine Acad.** Atti dell' Accad. di Udine . . 1844-5 dal Zambra. 8vo. (*From Giorn. I. R. Istit. Lomb.* xii. 378.) 1845

**ıger,** F. Mikroskopische Untersuchung des atmosphärischen Staubes von Gratz. 8vo. 7 pp. 5 plates. (*Sitsb. d. K. Akad. d. Wissens. Wien*, 1849, ix. u. x. Heft. p. 230.) *Wien*, 1849

Über Krystallbildungen in dem Pflanzensetzling. 4to. 60 pp. 7 plates. (*Ann. des Wien. Museum*, ii. Bd.) *Wien*

**Unger,** Johann Friedrich von. *Born* 1716, *at Brunswick; died February* 8, 1781, *at Brunswick.*

Abhandlung von der Natur der Electricität. 4to. 1745

(*Note.—Poggend. says Zwei Abhandl. von d. Natur d. Elect.; von d. Acad. in Berlin zum Druck befördert.* 4to. *Berlin*, 1745. *Die eine Abhandl. von T. G. Teske.*)

Von d. Elektricität. 8vo. (*Gelehrt Hanover Anzeig*, 1750.) *Hanover*, 1750

Vom Uebergang d. elektr. Materie aus e. Körper in d. anderen. 8vo. (*Hamb. Magaz.* viii. 1751.) *Hamburg*, 1751

Entwurf einer Maschine, wodurch alles was auf d. Clavier gespielt wird sich von selber in Noten setzt u.s.w. 4to. *Braunschweig*, 1744

**Ungerer.** (*Vide* Miege and Ungerer.)

† **Unsgaard,** T. J. Reglement for afbenyttelsen af de danske Statstelegraphlenier. 4to. 15 pp. *Kjobenhavn*, 1857

**Unterberger,** Leopold Freiherr von. *Born October* 12, 1734, *at Strengberg, Nieder-Oesterr; died February* 9, 1818, *at Vienna.*

Nützl. Begriffe von d. Gewittermaterie, nebst Beobachtungen üb. die beste Art, Blitzableiter anzulegen. 8vo. (*See next.*) *Wien*, 1811

Nützliche Anmerkungen von den Wirkungen der Electricität und Gewittermaterie. 8vo. *Wien*, 1811

† **Unverdorben,** F. X. Über das Verhalten des Magnetismus zur Wärme. (Inauguralschrift). 8vo. 78 pp. 1 plate. *München*, 1866

† **Upington,** H. Account of an Electrical Increaser for the unerring manifestation of small portions of the Electric Fluid. 8vo. 6 pp. 1 plate. (*Phil. Mag.* lii. 47.) *London*, 1818

**Upsal.** Acta nova regiæ societatis scientiarum Upsaliensis. Ser. iii. 4to. *Upsaliæ*

**Urban,** C. G. Widerlegung gewisser Vorurtheile, welche noch b. Gewittern herrschen. 8vo. *Eisenach*, 1792

† **Urbanski,** A. Theorie des Potenzials u. dessen Anwendung auf Elektricität. 8vo. 142 pp. ("*Zweite Ausgabe der Vorträge über höhere Physik, erste Abtheilung.*") *Berlin*, 1864

† **Ure.** Experiments on the Body of a Criminal executed at Glasgow on the 4th Nov. 1818. An account read at the Glasgow Literary Society on Dec. 10, 1818. 8vo. 6 pp. *Phil. Mag.* liii. 56.) *London*, 1819

(*Note.—This is not the whole of the paper read. It seems to have been copied from the Journal of Science and the Arts*, No. xii.)

**Ussher,** Henry. Aurora Borealis seen in Full Sunshine. 4to. (*Trans. Inst. Acad.* 1788.) *Dublin*, 178

† **Usiglio,** C. (Estratto). Alquante osservazioni sul Galvanismo per curare alcune malattie degli occhi. 8vo. 1 page. (*Giorn. I. R. Istit. Lomb.* ix. 12.) *Milano*, 18

† **Utting,** J. Aurora Borealis? Particulars of the Meteor visible on the 2 September, 1828. Extracted from a Note to the Editor of the *Norw Mercury*. Dated Lynn Regis, October 1, 1828. 8vo. 2 pp. (*Phil. Mag Annals*, iv. 393.) *London*, 1

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**Vacca Berlinghieri.** (*Vide* Berlinghieri.)

† **Vail,** Alfred. The American Electro-Magnetic Telegraph; with the Reports of Congress. (1st issue, 1845.) 8vo. 208 pp. Cuts. *Philadelphia,* 1847

Le Télégraphe électro-magnétique Américain avec le rapport du Congrès et la description de tous les télégraphes connus, où sont mis en usage l'électricité et le galvanisme; trad. de l'Anglais par H. Watteman. 8vo. 263 pp.

† Gründliche Darstellung d. elektr.-magnet. Telegraphen, nach dem System des Prof. Morse . . Aus dem Englischen übersetzt von C. Gerke. 8vo. 1 plate. 27 pp. *Hamburg,* 1848

† Le meraviglie della Telegrafia elettrica ossia Telegrafo elettro-magnetico Americano . . Opera di A. Vail . . Voltata in Italiano da Lorenzo Polettini. Con note ed aggiunte. 4to. 169 pp. 5 plates. 1850

**Vaillant.** Voyage . . sur la Bonite pend. 1836 et 1837. 8vo. *Paris,* 1840-46

† **Valentin,** G. G. Beiträge zur Anatomie des Zitteraales (Gymnotus elect.). 4to. 74 pp. 3 plates. (*Aus dem 6 Bande d. Neuen Denkschriften d. allgem. Gesellsch. für d. gesamm Naturwissenschaft, besonders abgedruckt.*) *Neuchatel,* 1841

Ueber d. Möglichkeit d. Stimmungsrichtung eines galvan. Froschpräparates wilkuhrlich umzukehren. (*Vierordt's Archiv.* 1853.) 1853

Neue Untersuchungen über d. Polarisations Ercheinungen d. Krystall-linsen d. Menschen u. d. Thiere. *Arch. f. Ophthalm.* iv. 1859.) 1859

**Valentini,** Ch. B. Dissertatio inaug. de lapide ceraunio, vulgo von der Donner-Axt, et de fulmine tactis. 4to. *Gissæ,* 1717

**Valerius,** H. Mémoire sur l'emploi de l'électricité en médecine. 8vo. 83 pp. (*Ann. de la Soc. de Méd. de Gand,* xxix. 115.) *Gand,* 1852

**Valerius Maximus.** Quoted by Anobius (or Numa.) (*From Dutens,* p. 150.) A.D. 32

† **Valicourt.** Nouveau Manuel complet de Doruro et d'Argenture par la méthode électro-chimique et par simple immersion. . . Trad. de l'Italien et augmenté. 18mo. 173 pp. (*The translator quotes a Manuel complet de Galvano-plastic, nouvelle éd.* 1845.) *Paris,* 1845

(*Note.—This is a translation of the Manuel published at Reggio by Selmi.*)

† Nouveau Manuel complet de Galvano-plastie. 18mo. 2 vols. 2 plates. *Paris,* 1854

**Valicourt et Smee.** Manuel complet de Galvano-plastie. Nouvelle éd. 18mo. *Paris,* 1854

**Vallemont,** Pierre le Lorrain. *Born September* 10, 1649, *at Pont Audemer* (*Eure*); *died December* 30, 1721, *at Pont Audemer.*

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† Description de l'aimant qui s'est formé à la pointe du clocher neuf de Notre Dame de Chartres. 12mo. 215 pp. *Paris,* 1692

**Valli,** E. Procès-verbal des expériences de M. Valli sur l'électricité animale. (*La Médecine éclairée par les sciences physiques,* iv. 66. "*L'Acad. a chargé MM. Leroi, Vicq d'Azyn, et Coulor de répéter ces Exp. avec M. Valli. Les principales ont été faites . . le* 12 *Juillet,* 1792.) *Paris,* 1792

9 Lettres sur l'électricité animale. 4to. (*Journ. de Phys.* tom. xli. pp. 66, 72, 185, 189, 193, 197, 200, 435; et tom. xlii. p. 74.) *Paris,* 1792-3

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† Lettere sull' Elettricità animale ad un suo amico. (Pavia, 5 Ap. 1792.) 8vo. 25 pp. *Torino*, 1792

† Experiments on Animal Electricity, with their application to Physiology. 8vo. 323 pp. *London*, 1793

† Lettera al Brugnatelli sull' Elettricità Animale. (Data) Mantova, 8 Settem. 1794. 8vo. 5 pp. (*Ann. di Chim. di Brugnatelli*, vii. 40.) *Pavia*, 1795

† Lettera all' Aldini. (Movimenti del cuore, &c.) 8vo. 5 pp. (*Giorn. Fis. Med. di Brugnatelli*, anno 8, tom. i. p. 264.) *Pavia*, 1795

† Lettera xi. sull' Elettricità Animale. Data 15 Ottobre, 1794, Mantova. 8vo. 15 pp. (*Ann. di Chim. di Brugnatelli*, vii. 213.) *Pavia*, 1795

† Lettera xii. indirizzata al . . Brugnatelli, sull' Elettricità animale. (Senza data.) 8vo. 11 pp. (*Ann. di Chim. di Brugnatelli*, vii. 228.) *Pavia*, 1795

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His Experiments tried by a Commission of the Paris Academy, viz. Leroi, Vicq d'Azyr, Coulomb, and Fourcroy. *Paris*

Vallisnieri, Antonio. *Born May* 3, 1661, *at Trasilico, in Modenesischen; died Jan.* 18, 1730, *at Padua.*

† Due Lettere . . sopra alcune cose di Storia-naturale. 12mo. 49 pp. (*Calogera, Racolta d'Opuscoli*, tom. ii. p. 1. *Fuoco lampente, Luce degli Animali e fuochi Fatui. Fuoco volante incend. &c.*) *Venezia*, 1729

De pluvia lapidea. (*Ephemer. Acad. Nat. Curios. Cent.* 5 & 6, p. 195.)

Vallot. Note sur un mém. de M. D'Agout constatant la périodicité des Etoiles filantes. 8vo. (*Bord. Acad.* Actes 2me an. p. 689.) *Bordeaux*, 1840

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Van Barneveld. (*Vide* Barneveld.)

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Van Marum. (*Vide* Marum.)

Van Musschenbrock. (*Vide* Musschenbrock.)

*Note.—All names having the prefix* VAN (OR VAN DER) *will be found entered under the first letter of the second portion of the name as above.*

† Varley, C. On Atmospheric Phænomena: particularly the Formation of Clouds; their Permanence; their Precipitation in Rain, Snow, and Hail; and the consequent rise of the Barometer. 8vo. 7 pp. (*Phil. Mag.* xxvii. 175.) *London*, 1807

† Meteorological Observations on a Thunder Storm; with some remarks on Medical Electricity. 8vo. 8 pp. 1 plate. (*Phil. Mag.* xxxiv. 161.) *London*, 1809

† Further Remarks on Thunder Storms. 8vo. 2 pp. (*Phil. Mag.* xxxiv. 201.) *London*, 1809

† **Varley,** Cromwell Fleetwood. Description of the Translating Apparatus and Universal Galvanometer invented by C. F. Varley. 8vo. 8 pp. 5 separate woodcuts. *London*, 1863

† Instructions for the Use of C. F. Varley's Universal Testing Apparatus. 8vo. 12 pp. *London*, 1863?

† The Phenomena of the Atlantic and the other Long Cables. Fol. 2 pp. (*Engineer*, Feb. 22, 1867.) *London*, 1867

† **Varley, S. A.** On the Electrical qualifications requisite in Long Submarine Telegraphic Cables. 8vo. (*Proceedings of the Institute of Civil Engineers*, xvii. 1857-58.) *London*, 1858

**Varro,** Terentius. De lingua Latina. (*From Datens*, p. 150.) (*Numa's religious ceremonies: Jupiter Elicius.*) B.C. 115

**Vasari, G.** Opere. 8vo. Plates. 2 vols. *Firenze*, 1832-8

**Vasquez-y-Morales.** Ensayo sobre la Electricidad . . escrito en idioma francès por . . Nollet . . traducido en Castellano por D. Jos. Vasquez-y-Morales: añadida la Historia de la Elect. 4to. 1 plate. 131 pp. *Madrid*, 1747

**Vassalli-Eandi,** Antonio Maria. *Born January* 30, 1761, *at Turin; died July* 5, 1825, *at Turin.*

† Memoria sopra il Bolide degli xi. Sett. 1784 e sopra i bolidi in generale. 12mo. 113 pp. *Torino*, 1786

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Esame della "Elettricità delle Meteore" del Bertholou. (*Biblioteca Oltremontana*, tom. ix. (*sic*: q. error.) *Torino*, 1787

Esame della teoria sull' elettricità e sopra il magnetismo dell' Ab. Hauy. (*Biblioteca Oltremontana*, tom. ii. e iii.?) *Torino*, 1788

† Sperienze elettriche sopra l'acqua e sopra il ghiaccio. 4to. 14 pp. (*Mem. Soc. Ital.* iv. 263.) *Verona*, 1788

Aghi calamitati, che non soffrono alcuna declinazione. (*Opusc. Scelti*, xix. 216.) *Torino*, 1788

† Memorie fisiche. 8vo. 143 pp. *Torino*, 1789

Osservazioni sull' agghiacciamento dell' acqua elettrizzata. (*Giornale Scientif. Letter. d'una Soc. Filosofica di Torino*, tom. i.) *Torino*, 1789

Sperienze sopra l'influsso dell' elettricità nel colore dei vegetabili. (*Giornale Scientifico d'una Soc. Filosofica di Torino*, tom. iii.) *Torino*, 1789

† Lettere fisico-meteorologiche dei . fisici Senebier, De Saussure, e Toaldo con le risposte di A. M. Vassalli. 8vo. 223 pp. *Torino*, 1789

† Lettera sopra diversi argomenti di fisica diretta al Sig. Brugnatelli. 8vo. 3 pp. (*Bibl. Fis. d'Europa*, tom. xvii, p. 144.) *Pavia*, 1790

† Articolo di Lettera del . Vassalli al . Brugnatelli sopra l'elettricità di diversi corpi, ed altri argomenti di Chimica. 8vo. 5 pp. (*Ann. di Chim. di Brugnatelli*, i. 53.) *Pavia*, 1790

Sperienze elettriche . acqua e ghiaccio. (*In Mem. della Soc. Ital.* tom. iii.) 1790

Theses ex universa philosophia selectæ. 4to. *Derthonæ*, 1790

† Saggio sopra i principali fenomeni della Meteorologia del Sig. Monge, colle riflessioni del Sig. Ab. A. M. Vassalli. 8vo. *Torino*, 1791

† Conghietture sopra l'arte di tirare i Fulmini appo gli Antichi. 8vo. (*Opuscoli Scelti di Milano in* 4to. tom. xiv.) 1791?

**Vassalli-Eandi**, Antonio Maria.—*continued.*

Sul colore dei Vegetabili. Lettera di P. F. con la risposta di A. M. Vassalli, 1791. 8vo. *Torino*, 1791

(*Note.—Vassalli published his opinion that colour in vegetables was, in some measure, due to Electricity.*)

† Expériences électrométriques. 4to. 36 pp. 1 plate. (*Mem. Accad. Torino*, x. 57. Lu le 15 Déc. 1790.) *Turin*, 1792

† Articolo di lettera al Brugnatelli sopra diversi argomenti. 8vo. 5 pp. (*Giorn. Fis. Med.* ii. 110.) *Pavia*, 1792

Physica experimentalis lineamenta. (*Vide* Eandi.) 1793-4

Lettre à J. Buniva . . sur l'électricité animale. 8vo. (*Recueil périodique de Littérature médicale étrangère, de Sedillot*, ii. 266.) *Paris ?*

† Lettera al C. Amoretti (del 30 Nov. 1796, Torino) I metodi di preparare aghi calamitati che non soffrano alcuna declinazione, &c. 4to. 2 pp. (*Opuscoli Scelti*, xix. 215, &c.) *Milano*, 1796

Lettera allo Spallanzani sopra i suoi viaggi alle due Sicilie. 4to. (*Bibliot. Italiana.*) *Milano*, 1797

† Sopra alcuni istrumenti meteorologici che segnano, per se stessi, le variazioni atmosferiche per 24 ore o più. Ricevuta 3 Mag. 1799. 4to. 5 pp. 1 plate. (*Ital. Soc. Mem.* viii. pt. ii. p. 516.) *Modena*, 1799

Lettre sur le Galvanisme et l'origine de l'électricité animale. 4to. (*Journal de Phys.* an. 7, p. 336.) *Paris*, 1799

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Sur le Vitalomètre. 4to. (*Journal de Phys.* l.) *Paris*, 1800

Essai sur l'utilité des conducteurs électriques, prouvée par la foudre tombée . . sur l'hôtel de M. le Marquis Graneri. 4to. (*Mem. dell' Accad. di Torino*, vi. part i. p. 57.) *Torino*, 1800

† Expériences galvaniques sur les décapités. 4to. *Turin*, 1802

† Rapport présenté à la Classe des Sciences exactes de l'Acad. de Turin . 2 Nevôse, an. xl. (1803), sur l'action du Galvanisme, et sur l'application de ce fluide et de l'électricité à l'art de guérir. 4to. 12 pp *Turin*, 1803 ?

† Rapporto fatto alla Classe delle Scienze esatte dell' Accad. di Torino nella Sessione de' 2 Nevôso, an. xi. (Dec. 23, 1802) sull' azione del Galvanismo, e sull' applicazione del fluido galvanico e dell' elettricità all' arte di guarire. 4to. 8 pp. (*Opusc. Scelti*, xxii. 76.) *Milano*, 1803

† Report presented to the Class of the Exact Sciences of the Academy of Turin, January 12, 1803, on the action of Galvanism, and the application of this fluid and of Electricity to Medicine. 8vo. 7 pp. (*Phil. Mag.* xv. 319.) *London*, 1803

† Saggio sopra il fluido galvanico. Ricevuto 21 Marzo, 1803. 4to. 33 pp. Carta. (*Mem. Soc. Ital.* x. part ii. p. 733.) *Modena*, 1803

† Lettera sopra la natura del fluido Galvanico al Senebier. Ricevuta 1 Luglio, 1803. 4to. 3 pp. (*Ital. Soc.* x. 802.) *Modena*, 1803

† Expériences galvaniques, ou Notice de la dernière séance du cours public des expériences physiques, faites dans le théâtre physique et anatomique des Ecoles Spéciales de Turin. 8vo. 36 pp. (*Bibliothèque Italienne par Giulio Gioberti, &c.* tom. ii. p. 25.) *Turin*, 1803

† Notice d'un météorographe. Lu le 25 Brumaire, an 12. 4to. 19 pp. 2 plates. (*Mém. de Turin*, an x. *et* xi. 1802-3 (*printed* 1804), p. 426. *At* p. 443, *Action du Céraunographe et de l'Electromètre.*) *Turin*, 1804

† Ricerche sulla natura del fluido-galvanico. Letta nell' Accad. di Torino ai 30 Settem. 1804, "tradotto poco meno che letteralmente." 4to. 13 pp. (*Nuova Scelta d'Opuscoli*, i. 167.) *Milano*, 1804

† Sur la vitesse du fluide galvanique. 8vo. (*Bibl. Italien. par Giulio, Gioberti, &c.* vol. i. p. 128.) *Torino*, 1804

**Vassalli-Eandi,** Antonio Maria.—*continued.*

Notice sur la vie et les ouvrages d'Eandi (T. A. F. J.), par A. M. Vassalli-Eandi. (*Vide* Eandi, 1804.) (*Mém. de Turin*, xii. 1.) 1804

† Expériences et observations sur le fluide de l'électromoteur de Volta. Lu le 30 Floréal, an 9.) 4to. 34 pp. (*Mém de Turin*, ann. x. *et* xi. 1802-3, *printed in* 1804.) *Turin*, 1804

Recherches sur la nature du fluide galvanique. Lu le 3me jour complémentaire an 11. 4to. 31 pp. (*Mém. de Turin*, Ann. 12 *et* 13, p. 144, tom. xiv.) *Turin*, 1805

† Lettera sopra la costruzione del cervovolante, e la maniera di servirsene. (*Giornale di Torino.*) 1805

† Saggio di un trattato di Meteorologia Ricevuto 26 Nov. 1805. Proemio Storico. 4to. 15 pp. (*Ital. Soc. Mem.* xiii. part ii. p. 85.) *Modena*, 1807

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Nota sopra un mezzo facile di preservare le case rustiche dal Fulmine. (*Calend. Georg.* 1814.) 1810

*† Saggio di un Trattato di Meteorologia. Memoria. Ricevuta li 19 Dec. 1814. 4to. (*Ital. Soc. Mem.* xvii. *Parte Fisica*, p. 230.) *Verona*, 1815

*† Indice degli Autori e delle Materie dei volumi della R. Accad. delle Scienze dal 1759 al 1815. 4to. (*Mem. dell'Accad. di Torino*, tom. xxii.) *Torino*, 1816

† Notizia sopra la Vita, &c. di Beccaria. (*Vide* Beccaria.) 1816

*† La Meteorologia Torinese: ossia Risultamento delle Osservazioni fatte dal 1757 al 1817. (*Mem. dell' Accad. di Torino*, tom. xxiv.)

*† Nota sulla virtù igrometrica dei capelli delle Mummie. (*Mem. dell' Accad. di Torino*, tom. xxix.)

*† Nota sopra le straordinarie variazioni del Barometro, &c. . nel 1821. (*Mem. dell' Accad. di Torino*, tom. xxvii.)

† Memorie istoriche intorno alla Vita ed agli studii di Gianfrancesco Cigna. 4to. (*Mem. dell' Accad. di Torino*, tom. xxvi. p. xiii.) *Torino*, 1821

*† Nota sopra lo straordinarissimo abbassamento del Barometro . 2 Feb. 1823; e sopra un fenomeno . in alcuni Pozzi d'acqua viva. (*Mem. dell' Accad di Torino*, tom. xxvii.)

† Descrizione di un nuovo Atmidometro per misurare l'evaporazione dell' acqua, del ghiaccio, e di altri corpi a varie temperature. Ricevuta Aprile 29, 1823. 4to. 7 pp. 1 plate. (*Ital. Soc. Mem.* xix. 347.) *Modena*, 1823

† Saggio sulla vita e sugli scritti del Prof. A. M. Vassalli-Eandi scritto dal di lui Nipote Secondo Berrutti. 8vo. 198 pp. *Torino*, 1825

† Notizie biografiche del Professore Abate Vassalli-Eandi, Membro e Segretario perpetuo della Reale Accademia delle Scienze di Torino: Raccolte dal . . Carena. Letto 4 Dicem. 1825. 4to. 23 pp. (*Mem. di Torino*, tom. xxx. p. xix.) *Torino*, 1826

† Elogio: scritto dal Berrutti. Ricevuto 11 Dec. 1837. 4to. 32 pp. (*Ital. Soc. Mem.* xxii. p. liv.) *Modena*, 1832

(*Vide* also Eandi.)

† **Vassalli-Eandi, Giulio, e Rossi.** Rapport présenté à la Classe des Sciences exactes de l'Acad. de Turin, le 27 Thermidor, sur les expériences galvaniques faites, les 22 et 26 du même mois, sur la tête et le tronc de trois hommes, peu de temps après leur décapitation. 4to. 19 pp. (*Volta's copy.*) *Turin*, 1802

† Transunto del Rapporto fatto all' Accad. delle Scienze di Torino ai 27 Termidoro anno x. sulle sperienze Galvaniche fatte ai 22 e 26 dello stesso mese sul tronco di tre uomini poco dopo la loro decapitazione. 4to. 6 pp. (*Opusc. Scelti*, xxii. 51.) *Milano*, 1803

(*Vide* also Giulio, &c.)

**Vassalli-Eandi, Giulio e Rossi.**—*continued.*

† Report presented to the Acad. of Turin, August 15, 1802, in regard to the Galvanic Experiments made by them on the 10th and 14th of the same month, on the head and trunk of three men a short time after their Decapitation. 8vo. 8 pp. (*Phil. Mag.* xv. 38.) *London*, 1803

† **Vassalli-Eandi, Rossi, et Michelotti.** Précis de nouvelles expériences galvaniques. Le 28 Juillet, 1805. 4to. 7 pp. (*Mém. de Turin*, ann. 1805-1808, p. 160.) *Turin*, 1809

**Vatlon (Watson?).** Essai sur les causes de l'électricité. (*From Maugin.*)

† **Vauquelin, C.** On Stones supposed to have fallen from the Clouds, (and discussion thereon) in the French National Institut. (Read by Lacroix.) 8vo. 2 pp. (*Phil. Mag.* xv. 187.) *London*, 1803

† Memoir on the Stones said to have fallen from the Heavens. Read in the French National Institute. 8vo. 8 pp. (*Phil. Mag.* xv. 346.) *London*, 1803

**Vauquelin, L. N.** Mémoire sur les pierres dites tombées du ciel. 8vo. (*Journ. des Mines*, xiii. 1802-3.) *Paris*, 1802-3

**Vauquelin, Fourcroy,** et **Thenard.** Nouvelles expériences galvaniques. 4to. (*Mém. des Soc. Savantes et Litter.* i. 204.) *Paris*, 1801

**Vedova.** (*Vide* Kreil and Vedova.)

**Vegelin, J. H.** De materia magnetica, ejusque actione in ferrum et magnetem. 4to. *Frankfort*, 1763

† **Veladini, G.** (Rivista) Misura assoluta . . di Gauss tradotto . da Frisiani e Osservazioni sull' intensità, &c. della forza magnetica di Kreil e Vedova. 8vo. 26 pp. (*Giorn. I. R. Istit.* vi. 207.) *Milano*, 1843

*† Sulla prima applicazione del pendolo. (*Giorn. I. R. Istit. Lomb.* Nuova Ser. 4to. vi. 191.)

† **Vene, A.** Essai sur une nouvelle théorie de l'électricité. 8vo. 118 pp. 1 plate. *Arras*, 1820

**Venetian Athenæum.** Esercitazioni scientifiche e letterarie dell' Ateneo di Venezia. 4to. Tom. i. 1827; tom. ii. 1838; tom. iii. 1839; tom. iv. 1841; tom. v. 1846; tom. vi. 1847; tom. vii. 1858, 1860, &c. *Venezia*, 1827 *to* —

(*Note.—This collection contains many notices, &c. relative to Electricity and Magnetism, &c. in "Relazioni" by various members. There are only two entire Memoirs in the collection, viz. those of Marianini in the first volume.*)

**Venetian Imperial Royal Institution.** Atti delle Adunanze dell' I. R. Istituto Veneto di Scienze Lettere ed Arti. 8vo. 1st Series, 1841—1848, 7 vols.; 2nd Series, 1850—1855, 6 vols.; 3rd Series, 1856—1859, 4 vols.; and continued after 1859. The vols. have no designating number in the title-pages. *Venezia*, 1841 *to* —

(*Note.—This collection contains many Articles relative to Electricity, Magnetism, &c., some few of which are original, entire memoirs, &c.; but the principal number consist of accounts, more or less abridged, of memoirs, &c. read, and of conversations held at Meetings, and many of these have been printed elsewhere.*)

Memorie dell' I. R. Istituto Veneto di Scienze, Lettere, ed Arti. 4to. Vol. i. 1843; vol. ii. 1845; vol. iii. 1847; vol. iv. 1852; vol. v. 1855; vol. vi. 1856; vol. vii. 1858; vol. ix. 1860. *Venezia*, 1843 *to* —

**Venetian Lombardy Imperial Royal Institution.** Memorie dell' Imperiale Regio Istituto del Regno Lombardo-Veneto. 5 vols.? 4to. *Milano*, 1819 *to* 1838?

**Venturoli, Gius.** Sull' elettricità atmosferica. (*Opusc. Scientif. di Bologna*, ii. 1818.) *Bologna*, 1818

**Vérard de Sainte Anne, M.** Télégraphie Électrique, lignes d'Europe, d'Asie, d'Afrique, d'Océanie, d'Amérique, &c. Section de Mossoul à Haïderabad, de Calcutta à Bangkok et Singapour. Mémoire présenté à l'Institut Impérial de France, aux gouvernements des cinq parties du monde. 4e édition, augmentée et précedée d'une préface par L. Giraudan. 8vo. 45 pp. *Paris*, 1862

**Verati.** Storia del Magnetismo animale. 4 vols. 8vo. 1845-6

**Veratti,** Giuseppe. *Born January 30, 1707, at Bologna; died March 24, 1793, at Bologna.*

† De Aurora boreali anni 1732. 4to. 3 pp. (*Comment. de Bonon. Scient. Instit.* tom. ii. pars iii. p. 493.) *Bononiæ,* 1747

† Osservazioni fisico-mediche intorno alla elettricità. 8vo. 143 pp. *Bologna,* 1748

† Observations physico-médicales sur l'électricité; auxquelles on a joint des expériences faits à Montpellier, pour guérir les paralytiques. Trad. 12mo. 151 pp. *La Haye,* 1750

Osservazione fatta in Bologna l'anno 1753 dei fenomeni elettrici nuovamente scoperti in America e confermati in Parigi. 4to. 4 pp. *Bologna*

(*Note.—Troili,* p. 39, *refers to Experiments on Electricità celeste made by Veratti in* 1752, *and described in the Storia Letteraria,* vol. vi. lib. iii. cap. iii. p. 686. *In* vol. vi. p. 686, 1854, *is noticed "un' Osservazione di Veratti fatta in Bologna l'anno* 1752, *dei fenomeni nuovamente scoperti in America, e confermati in Parigi.")*

† De electricitate cælesti. 4to. 5 pp. (*Comment. de Bonon. Scient. Instit.* tom. iii. p. 200.) *Bononiæ,* 1755

† De electricitate medica. 4to. 25 pp. (*Comment. de Bonon. Scient. Instit.* tom. iii. p. 454.) *Bononiæ,* 1755

† Experimenta magnetica. 4to. 14 pp. (*Comment. de Bonon. Scient. Instit.* tom. vi. p. 31. *Bononiæ,* 1782

De animalibus electrico ictu percussis. 4to. (*Comment. de Bonon. Scient. Instit.* vii. c. p. 41.) *Bononiæ,* 1791

(*Vide* also Anon. Med. Elect. 1763.)

**Verdeil,** François. *Born 1747, at Berlin; died February 21, 1832, at Lausanne.*

Mémoire sur les brouillards électriques, vus en Juin et Juillet, 1783, et sur le tremblement de terre arrivé à Lausanne le 6 Juillet de la même année. 4to. (*Mém. de Lausanne,* tom. i. p. 110.) *Lausanne,* 1784

Observations et expériences faites à l'occasion d'un coup de foudre tombé sur l'église cathédrale de Lausanne. 4to. (*Mém. de Lausanne,* tom. i. p. 158.) *Lausanne,* 1784

**Verdet,** Marcel Emile. *Born March 13, 1824, at Nîmes, Département du Gard.*

Note sur le Mémoire de Masson relatif à la constitution des courants induits de divers ordres. 8vo. (*Ann. de Chim. et Phys.* liii. 1858.) *Paris,* 1858

† Thèse . . Recherches sur les [illegible] produits par les décharges électriques. 4to. 1858

Città di Tortona. 8vo.

Note sur les courants [illegible] che hanno colpito il torrazzo di Cremona. Memoria. Philom. 8 Déc. (*del fascicolo di* Feb. 1841, *degli Ann. di Fisica, &c.*) *Milano,* 1841

(*Arago's copy.*)Mr. Bouillon Lagrange on the Amalgam of Mercury and

Sur les courants Arbor Dianæ. (*Ann. de Chim.* lxxii. 93.) 8vo. 2 pp. (*Phil.* . 143.) *London,* 1810

† Récherches [illegible]ymus. De magnetica vulnerum curatione. 8vo. *Parisiis,* 1668
métaux
31 pp.
de. *Died* 1244, *at Rome.*

† Réche- Hyérosolymitaine. Cap. lxxxix. (*Tiraboschi Storia Letteraria,* iv. par. *About* 1200
8 *Note.—Poggendorf,* ii. 1184, *says his "Historia Orientalis," written between* 1215 *and* 1220, *contains the oldest European document on the use of the compass, and refers to Klaproth.*)

**Verdr**

zio, G. Teoria e pratica della elettricità medica del Sig. T. Cavallo . . e della forza dell' Elettricità nella cura delle supp. di menst. del Chirurgo, G. Birch. Tradotto dall' Inglese, di alcune annotazioni corredate, e dall' istoria dell' elettricità medica precedute. 4to. 157 pp. 4 plates. *Napoli,* 1784

**Verdu, G.**—*continued.*

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† **Viglione,** G. F. Nuova Discussione della Teoria Frankliniana. 4to. 499 pp. 1 plate. (*The* 7 pp. *contain a letter from and a letter to Volta.*) *Novara*, 1784

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† **Vignotti.** Recherches et résultats d'expériences relatifs à la mise en service des chronoscopes électro-balistiques. 8vo. 215 pp. 4 pp. *Paris*, 1859

† **Villain,** B. Analyse chimique de la lumière, et nouvelle théorie des phénomènes magnétiques électriques et galvaniques. 8vo. 136 pp. 1 plates. *Paris*, 1810

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(*Note.—Poggendorf*, ii. 1184, *says his "Historia Orientalis," written between* 1215 *and* 1220, *contains the oldest European document on the use of the compass, and refers to Klaproth.*)

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† Formules électrométriques. Lettre de. 4to. 2 pp. (*Comptes Rendus*, 1859.) *Paris*, 1859

† Osservazioni sul magnetismo. Nota. (*Estratta dagli Atti dell' Accad. Pontif. de' Nuovi Lincei*, anno xiv. sessione iii. del 3 Feb. 1861.) *Roma*, 1861

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† Formule per determinare mediante il condensatore la elettricità terrestre, o qualunque altra indeficente, senza bisogno di uno stato elettrico assoluto. Nota. 4to. 7 pp. (*Estratta dagli Atti della Accad. Pont. de' Nuovi Lincei*, xvii. p. 164.) *Roma*, 1864

(*Vide* also Plana, C. A. A. 1864.)

† Sulla Elettro-statica induzione. Decima comunicazione. 4to. 7 pp. (*Estratta dagli Atti della Accad. Pontif. de' Nuovi Lincei*, sess. i. del 4 Dicemb. 1864, tom. xviii. p. 59.) *Roma*, 1865

† Considerazioni sulla tensione, tanto in elettrostatica, quanto in elettrodinamica, e sulla elettrica influenza. Undecima comunicazione. 4to. 11 pp. (*Estr. della Sessione* i. *del* 3 *Dicem.* 1865, tom. xix. pp. 11—21. *Atti dell' Acad. Pont. de' Nuovi Lincei.*) *Roma*, 1865

† Ricerche analitiche sul Bifilare tanto magnetometro, quanto elettrometro, sulla curva bifilare e sulla misura del Magnetismo terrestre. Memoria. 4to. 82 pp. 1 plate. (*Estr. d. Atti dell' Accad. Pontificia de' Nuovi Lincei*, xvii.) *Roma*, 1865

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† Sulle osservazioni meteorologiche e magnetiche, nell' osservatorio dell' Infante D. Luigi, a Lisbona. Cenno. 4to. 4 pp. (*Atti dell' Accad. Pontif. dei Nuovi Lincei*, sess. iv. del 5 Marzo, 1865, tom. xviii.) *Roma*, 1865

† Observations sur la Tension tant en Electrostatique qu'en Electrodynamique et sur l'influence électrique. 8vo. 8 pp. (*Extrait par l'auteur . Comptes Rendus*, lxi. p. 548, 1865.) *Paris*, 1865

† Analisi e rettificazioni di alcuni concetti, e di alcune sperienze che appartengono alla elettrostatica. Memoria Prima. 4to. 180 pp. (*Atti dell' Accad. Pontif. de' Nuovi Lincei*, xix. p. 312, 1865.) *Roma*, 1866

† Intorno alle prime scoperte delle proprietà che appartengono al Magnete. Cenno istorico compilato del Prof. Volpicelli. 4to. 16 pp. (*Estratti dagli Atti dell' Acad. Pont. de' Nuovi Lincei*, tom. xix. Marzo, 1866, pp. 205, 218.) *Roma*, 1866

† Pubblicazioni del Prof. P. Volpicelli sino a tutto l'anno 1866. 4to. 12 pp. *Roma*, 1866

† Introduzione alle formule per la teoria dell' elettromotore voltaico. Ragionamento. 4to. 29 pp. *Roma*, 1867

† Sugli elettrofori a rotazione continua, e spiegazione di una sperienza eseguita recentemente coll' elettroforo di Holtz. Nota. 4to. 7 pp. (*Accad. Pontif. de' Nuovi Lincei*, sess. iv. del 19 Aprile, 1868.) *Roma*, 1868

† Sopra il telegrafo di Gloesener. Comunicazione del Volpicelli. 4to. 2 pp. (*Accad. Pontif. de' Nuovi Lincei*, sess. iv. del 19 Aprile, 1868.) *Roma*, 1868

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† Sulla causa dell' inversione delle cariche di elettricità nei coibenti armati; e sull' influenza elettrica nei gas rarefatti. 4to. 16 pp. (*Estratta della sessione* vii. *del* 6 *Giugno*, 1869, *dell' Accad. Pontificia de' Nuovi Lincei.*)
*Roma*, 1869

† Di un Barometro fotografico, e formule per compensare automaticamente gli effetti della temperatura in un barometro qualunque. Memoria. 4to. 42 pp. 1 plate. *Roma*, 1870
(*Note.—This is Sir F. Ronalds' Barograph.*)

† Della distribuzione elettrica sui conduttori isolati. (*Mem. d. Roma.*) 4to. 20 pp. (*Estr. dagli Ann. di Matemat. pure ed applicate*, Serie ii. tom. iii. Fasc. iii. da p. 249 e p. 268.) *Roma*, 1870

† Esposizione del modo col quale per la prima volta, fu applicato il calcolo alla elettrostatica e ne fu concluso che la elettricità indotta non tende. Memoria del Volpicelli per servire alla storia della elettricità. 4to. 51 pp. (*Estratto dagli Atti della reale Accad. de' Lincei della sessione* i. *del* 4 *Dicembre*, 1870.)
*Roma*, 1870

**Volta**, Alessandro. *Born February* 19, 1745, *at Como; died March* 5, 1827, *at Como.*

† De vi attractiva ignis electrici, ac phænomenis inde pendentibus . ad Joannem Bapt. Beccariam. Dissertatio epistolaris. 4to. 72 pp. (*Presented by Count Zanino Volta.*) *Nova-Comi*, 1769
(*Note.—His first Electrical work, much esteemed.*)

† Novus ac simplicissimus electricorum tentaminum apparatus: seu de corporibus eteroelectricis quæ fiunt idioelectrica experimenta, atque observationes Alexandri de Volta. Sm. 4to. 38 pp. (*Volta's copy.*) *Novo-Comi*, 1771

† Squarci di due lettere scritte dal Volta, al P. C. G. Campi . 1ma, 13 Giugno; 2da, 22 Giugno, 1775. 12mo. 4 pp. (*Scelta d'Opuscoli* in 12mo. viii. 127.)
*Milano*, 1775

† Articolo di una lettera del . Volta al Dot. Priestley. 12mo. 17 pp. (*Scelta di Opuscoli* in 12mo. ix. 91.) *Milano*, 1775

† Seguito della lettera al Priestley. 27 pp. 1 plate. (*Scelta di Opuscoli*, x. 87.
*Milano*, 1775

† Articolo di lettera . al Fromond. 12mo. 12 pp. (*Scelta d'Opuscoli*, xii. 94.)
*Milano*, 1775

† Lettre . à l'Auteur de ce Recueil, sur l'Electrophore perpétuel de son invention. 4to. (*Rozier Obser.* vii. Juill. 1776, pp. 21-24.) *Paris*, 1776

† Lettere sull' Aria infiammabile nativa delle Paludi. Al Padre C. G. Campi. 8vo. 16 pp. *Milano*, 1776

† Articolo di lettera al Fromond Como 21 Dec. 1775. 12mo. 14 pp. (*Scelta d'Opuscoli*, xiv. 84.) *Milano*, 1776

† Lettera al G. Klinkosch, dated May, 1776. 12mo. 36 pp. *Milano*, 1776

Schreiben an den Hern Jos. Klinkosh den beständigen Elektricitäts träger betreffend. *Prag*, 1777

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† Lettera del A. Volta al Dot. Priestley. Eudiometer. 12mo. 19 pp. 1 plate. (*Scelta d'Opuscoli* in 12mo. xxxiv. 65.) *Milano*, 1777

Lettere sull' aria infiammabile nativa delle paludi. 8vo. 147 pp. (7 Letters.)
*Milano*, 1777

† Lettere del Volta sull' Aria infiammabile. 12mo. 36 pp. (*Scelta d'Opuscoli* in 12mo. xxviii. 43.) *Milano*, 1777
(*Note.—This is the Editor's account of the book.*)

† Lettera i. al F. Castelli sopra la costruzione di un moschetto e d'una Pistola ad aria infiammabile. 11 pp. 1 plate. Lettera ii. sul medesimo soggetto. 14 pp. Lettera iii. sul medesimo soggetto. 22 pp. 12mo. 47 pp. 1 plate. (*Scelta d'Opuscoli. The* 2 *first in* tom. xxx. *the* 3*rd in* tom. xxxi.)
*Milano*, 1777

Volta, Alessandro.—*continued.*

† Lettre sur l'air inflammable des Marais. 8vo. *Strasbourg*, 1778

† Briefe über die entzündbare Luft. der Sümpfe. Nebst drey andern Briefen, die aus dem Mayländischen Journal genommen sind. Aus d. Ital. übers. von C. H. Kostlin. 8vo. 226 pp. 1 plate. *Strasbourg*, 1778

† Osservazioni sulla capacità dei conduttori elettrici, e sulla commozione che anche un semplice conduttore è atto a dare eguale a quella della boccia di Leyden; in una Lettera al De Saussure. 4to. 32 pp. 1 plate. (*Opusc. Scelti*, i. 273 and 289.) *Milano*, 1778

Of the method of rendering very sensible the weakest Natural or Artificial Electricity. 4to. (*Phil. Trans.* 1782, p. 237, *and Append.* p. 7, vol. lxxii. pt. i. *This is Cavallo's translation of the Italian version, which is printed with it, and the title of which is "Del modo di rendere sensibilissima la più debole elettricità, sia artificiale, sia naturale."*) *London*, 1782

Mémoire sur les grands avantages d'une espèce d'isolement trés imparfait. trad. de l'Ital. par M. . Sur la capacité des Conducteurs conjugués. Prem. Mém. dans lequel on démontre les avantages très-considerables d'une sorte d'isolement si imparfait, qu'on peut à peine lui donner ce nom, sur l'isolement le plus parfait. 4to. (*Rozier, Observ.* . xxii. *Mai* 1783, pp. 325-50.) *Paris*, 1783

Seconde partie du mémoire sur les isolements imparfaits. Expériences qui demontrent un autre avantage, trés-considérable, attaché à la même espèce d'isolement imparfait, consistant en ce qu'il rend un conducteur propre à recevoir l'électricité plus aisément, et en dose beaucoup plus grande, que s'il étoit parfaitement isolé. 4to. (*Rozier, Observ.* xxiii. *Juil.* 1783, pp. 3-16.) *Paris*, 1783

Suite du Mémoire sur les conducteurs électriques. 4to. (*Rozier, Observ.* xxiii. *Août*, 1783.) *Paris*, 1783

Sur les avantages d'un isolement imparfait. 4to. (*Rozier, Observ.* tom. i. p. 323 et tom. ii. p. 3.) *Paris*, 1783

(*Note.—These form the French version of the Paper in the Phil. Trans.* 1782, *entitled "On the method of rendering very sensible the weakest Electricity," and of the Mémoir in the Opusc. Scelti*, tom. vii. *entitled "Del modo di rendere sensibilissima la più debole elettricità," &c.*)

† (1) Del modo di rendere sensibilissima la più debole Elettricità sia naturale, sia artificiale. (Parte Prima) p. 128. (2) In qual modo un Conduttore accostandosi a un altro sotto certe condizioni acquisti una straordinaria capacità di ricevere, e contenere l'Elettricità. Parte Seconda, p. 145. 4to. 35 pp. (*Opusc. Scelti*, vii. 128 e 145.) *Milano*, 1784

† Lettera al Viglione, data 29 Feb. 1776. 4to. 2 pp. *Novara*, 1784

† Mem. sopra i fuochi de' terreni e delle fontane ardenti in generale, e sopra quelli di Pietra-Mala in particolare. 4to. 14 pp. and 3 pp. (*Mem. Soc. Ital.* ii. part ii. pp. 662 and 900.) *Verona*, 1784

(*Note.—He refers at p. 675 to his theory on the influence of inflammable air (thus produced) in conjunction with Electricity on the production of some kinds of Igneous Meteors.*)

† Estratto d'una Lettera . . il Sig. T. Brugnatelli. Como 20 Agos. 1788. 8vo. 3 pp. (*Bibliot. Fisica d'Europa*, tom. iv. p. 133, *Pavia.*) *Pavia*, 1788

Osservazioni sull' Elettricità dei vapori flell' acqua. 8vo. (*Biblioteca Fisica d'Europa* (*di Brugnatelli*, i. 149.) *Pavia*, 1788

Osservazioni sull' elettricità del ghiaccio. 8vo. (*Biblioteca Fisica d'Europa di Brugnatelli*, vi. p. 164.) *Pavia*, 1788

† Lettere del Volta, sulla Meteorologia elettrica. No. iv. 8vo. 2 plates. (*Biblioteca Fisica d'Europa di Brugnatelli.*) *Pavia*, 1788-89-90

† Della maniera di far servire l'elettrometro atmosferico portatile all' uso di un igrometro sensibilissimo. Memoria in cui si rischiarano molte cose intorno al trascorrimento del fluido elettrico ne' conduttori imperfetti. 4to. 30 pp. (*Mem. Soc. Ital.* v. 551.) *Verona*, 1790

**Volta**, Alessandro.—*continued.*

† Descrizione dell' Eudiometro ad aria infiammabile, il quale serve inoltre di apparato universale per l'accensione al chiuso delle arie infiammabili di ogni sorta mescolate in diverse proporzioni con aria respirabile più o meno pura; e per l'analisi di quelle e di questa, inventato e perfezionato dal Sig. D. Ales. Volta. 8vo. 61 pp. 1 plate. *Pavia*, 1790

† Seguito della descrizione dell' Eudiometro ad aria infiammabile. 8vo. 26 pp. (*Ann. di Chim. di Brugnatelli*, ii. 161.) *Pavia*, 1791

† Seguito della descrizione dell' Eudiometro ad aria infiammabile. 8vo. 10 pp. (*Ann. di Chim. di Brugnatelli*, iii. 36.) *Pavia*, 1791

Observationum circa electricitatem animalem, specimen. 8vo. (*Commentarii de rebus in Scientia naturali et in medicina gestis*, vol. xxxiv. pars ii. p. 685.) *Lipsiæ*

The early Experiments of Volta relative to Galvanic Phenomena are described. (*Commentarii de rebus in Scientia Naturali et in Medicina gestis*, xxxiv. 684, Article xiv. *des nouvelles littéraires, Journal de Leipzig.*) *Leipzig*, 1792

† Memoria Prima, sull' Elettricità Animale. 8vo. 42 pp. (*Giorn. Fis.-Med.* ii. 146. "*Discors. recitato 5 Maggio*, 1792.") *Pavia*, 1792

† Memoria Seconda sull' Elettricità Animale. 8vo. 30 pp. (*Giorn. Fis.-Med.* ii. 241.) *Pavia*, 1792

† Continuazione della Seconda Memoria sopra l'Elettricità Animale. 8vo. 39 pp. (*Giorn. Fis.-Med.* iii. 35, Luglio.) *Pavia*, 1792

† Nuove osservazioni sull' Elettricità Animale. Communicate dal Volta. 8vo. 5 pp. (*Giorn. Fis.-Med.* iv. 192, Novemb.) *Pavia*, 1792

† Transunto di Osservazioni sull' Elettricità Animale, ed alcune nuove proprietà del fluido elettrico. 4to. 3 pp. (*Opusc. Scelti*, xv. 213.) *Milano*, 1792

(*Note.—This is the Editor's account of Volta's early Experiments, &c.*)

† Transunto delle nuove osservazioni sull' Elettricità Animale del Volta. Articolo tratto dal Giornale Fisico-Medico del Brugnatelli, Novembre. 4to. 3 pp. (*Opusc. Scelti*, xv. 425.) *Milano*, 1792

† Lettera all' Autore (Bondioli) dell' Opera (sopra l'Aurora Boreale). 8vo. 14 pp. (*Giorn. Fis.-Med.* i. 66.) *Pavia*, 1792

† Lettera del 3 Aprile 1792 al Baronio sull' Elettricità Animale. 8vo. 9 pp. (*Giorn. Fis.-Med.* ii. 122.) *Pavia*, 1792

† (Editori) Sull' Elettricità Animale ed alcune nuove proprietà del fluido elettrico, del Volta. 8vo. 4 pp. (*Giorn. Fis.-Med.* ii. 287.) *Pavia*, 1792

† Memoria Terza sull' Elettricità Animale compresa in alcune lettere. Lettera Prima, al Prof. Aldini. 8vo. 19 pp. (*Giorn. Fis.-Med.* v. 63.) *Pavia*, 1793

Schriften über die thierische Elektricität; aus dem Ital. von Joh. Mayr. 8vo. *Prag*, 1793

Account of some discoveries made by Mr. Galvani, with Experiments and Observations on them. In two letters to Cavallo: 1st dated September 13, 1792; 2nd, October 25, 1792. 4to. (*Phil. Trans.* 1793, part i.) *London*, 1793

Meteorologische Beobachtungen, besond. über die atmosphär. Electricität, aus d. Ital. mit Anmerk. (auch unter d. Titel Meteorol. Briefe, nebst d. Beschreib. s. Eudiometers). Aus d. Ital. mit Anmerk. 8vo. *Leipzig*, 1793

Meteorologische Briefe a. d. Ital. 8vo. (*From Dove*, p. 228.) *Leipzig*, 1793

**Volta,** Alessandro.—*continued.*

† Nuova Memoria sull' Elettricità Animale, in alcune lettere al Vassalli. Lettera prima. 8vo. 10 pp. (*Ann. di Chim. di Brugnatelli*, v. 132.) *Pavia*, 1794

† Lettera seconda. . al . Vassalli sull' Elettricità Animale. 8vo. 25 pp. *Pavia*, 1794

† Lettera terza . al . Vassalli sull' Elettricità Animale. 24 Ottob. 1795. 8vo. 45 pp. (*Ann. di Chim. di Brugnatelli*, xi. 84.) *Pavia*, 1796

(*Vide* also Anon. Electricity, 1796.)

Fortgesetz Schriften über thierische Elekt. od Schreiben an I. M. Vassalli üb. d. thier. Elect. aus d. Ital. v. J. Mayer. 8vo. *Prag*, 1796

Letters 1st, 2nd, and 3rd to Gren on Galvanism or on Electricity excited by contact of dissimilar Conductors, in German. 8vo. (*Gren's Neue Journ. de Phys.* iii. 1796 *and* iv. 1797.) *Leipzig*, 1796-7

Expériences sur l'électricité dite animale. 8vo. (*Ann. de Chimie*, xxx. p. 276.) *Paris*, 1797

† Estratto di una lettera . . al Gren . . sul Galvanismo, ossia sull' elettricità eccitata dal contatto dei conduttori dissimili. 1 Agosto, 1796. 8vo. 49 pp. 1 plate. (*Ann. di Chim. di Brugnatelli*, xiii. 226.) *Pavia*, 1797

† Lettera ii. sul Galvanismo, in continuazione della precodente . . al . . Gren. Agosto, 1796. 8vo. 37 pp. (*Ann. di Chim. di Brugnatelli*, xiv. 3.) *Pavia*, 1797

† Lettera iii. sul Galvanismo, al Gren. (Not dated; written in 1797; *vide* p. 40 of this 3rd letter.) 8vo. 35 pp. (*Ann. di Chim. di Brugnatelli*, xiv. 40.) *Pavia*, 1797

(*Note.—Configliachi says* (*in reference to the three letters*): "*Vedi inoltre les Ann. de Chim.* vol. xxix. p. 91 *et Paris* (an. 1799) *e le Journ. de Phys.* . . t. xlviii. p. 336, 1799.")

† Estratto di lettere del Cit. N. N. Comasco al Cit. Aldini . . intorno alla pretesa elettricità animale nelle sperienze del Galvanismo. Lettera i. (Data Como Aprile, 1798. 8vo. 25 pp. (*Ann. di Chim. di Brugnatelli*, xvi. 3.) *Pavia*, 1798

† Appendice (alla Lettera i.). Articolo tratto dagli elementi di Fisica di Gren intorno alla cosi detta elettricità animale. 8vo. 15 pp. (*Ann. di Chim. di Brugnatelli*, xvi. 27.) *Pavia*, 1798

† Lettera ii. Estratto di lettere del Cit. N. N. (Comasco). . . (*Senza data: the second*). 8vo. 47 pp. (*Ann. di Chim. di Brugnatelli*, xvi. 42.)

(*Note.—These two letters are known to be by Volta from Configliachi's statement at* p. 17 *of the "Identità del fluido elettrico."*)

Lettera al Carradori. ("*Memorie per servire alla Storia letteraria e civile* anno 1798." (*Venezia.*) *Scrittura non compresa nella "Collezione."*) *Venezia*, 1798

Meteorologische Beobachtungen, besonders über die atmosphärische Elektricität. Aus d. Ital. mit Anmerkungen des Herausgebers (Herausgeg. von Lichtenberg, übers. von Schäffer.) 8vo. *Leipzig*, 1799

On the Electricity excited by the mere contact of Conducting Substances of different kinds. In a letter to Sir Joseph Banks, F.R.S. Read June 26, 1800. (*Dated Como, 20 March*, 1800; *written in French.*) 4to. (*Phil. Trans.* 1800, part ii. p. 403.) *London*, 1800

(*Note.—Configliachi "Questa Mem. interessantissima è scritta in francese. Veggasi anche la Description du nouvel appareil electrico galvanique, etc. nel J. de Phys. etc. Paris*, 1800, t. li. p. 334, *e nella Bibliothèque Britannique* . . . 1800, vol. xv. p. 3, *e Journ. de Nicholson.*" (*Account, &c.* . . *nel Luglio*, 1800.) (*Contains the first account of his Pile and couronne de tasses.*)

**Volta**, Alessandro.—*continued.*

† Lettera . . al . . Brugnatelli sopra alcuni fenomeni chimici ottenuti col nuovo apparecchio elettrico. 8vo. 7 pp. 1 plate. (*Ann. di Chim. di Brugnatelli*, xviii. 3.) *Pavia*, 1800

† Lettera . . al . . Mas. Landriani sopra l'elettrico. Como, 22 Sep. 1800. 8vo. 17 pp. (*Ann. di Chim. di Brugnatelli*, xviii. p. 7.) *Pavia*, 1800

Extrait d'une lettre au C. Dolomieu sur quelques tentatives pour rendre l'appareil galvanique encore plus commode. (*Bulletin . . Soc. Philomat.* No. 54, p. 48, an. 9.) *Paris*, 1801

Lettre à Delametherie sur les phénomènes galvaniques. 4to. ("*Journal de Phys. et Chim.* t. liii. p. 309. *La medesima in Italiano col titolo Sopra gli Elettromotori negli Opusc. Scelti*, . . t. xxi. p. 373, 1801.") *Paris*, 1801-2

(*Note.—Configliachi says*: "*Questa Mem. è interessantissima ed è come la prima parte della seguente stata letta dal Volta all' Istituto Nazionale di Francia nel Novembre*, 1801.")

Réponse aux observations de Nicholson sur ma théorie. Aux Rédacteurs de la Bibliothèque Britannique. 8vo. (*Bibl. Britan.* tom. xix. p. 274; *Sciences et Arts*, part i. p. 274; part ii. p. 339, an. x.) *Genève*, 1801-2

† Lettera a Delametherie sopra gli Elettro-motori. (Dal) Giornale di Fisica e Chim. (*i.e.* Journal de Phys.) tom. liii. 309, an. 10 (1801-2). Parigi vendemmiale anno 10. 4to. 7 pp. (*Opusc. Scelti*, xxi. 373. *Translation with a note by the translator, i.e. Soave.*) *Milano*, 1801

Description of the Apparatus which Beron used for his Demonstrations of Volta's Experiments, &c., and which he (Beron), presented to the "Société de Médecine et à l'Institut." *Paris*, 1801

Sur les phénomènes galvaniques. 4to. *Paris*, 1801

Paris Institute Commission Report . . Sur les expériences du Cit. Volta, viz., Laplace, Coulomb, Hallé, Monge, Fourcroy, Vauquelin, Pelletan, Charles, Brisson, Sabathier, Guyton de Morveau, and Biot. *Paris*, 1801

† Exposition abrégée des principales expériences répétées par lui, en présence des commissaires de l'Institut National par lesquelles il a rendu évidente l'identité de principe entre les phénomènes du galvanisme et ceux de l'électricité. 4to. (*Soc. Philomat.* an. 10, p. 74.) *Paris*, 1802

De l'électricité galvanique (ossia) le fluide galvanique ne diffère point du fluide électrique. 8vo. (*Ann. de Chim. e Phys.* vol. xi. p. 225. "*La medesima Mem. col titolo 'Sull' identità del fluido elettrico col fluido galvanico' ritrovasi negli Annali di Chimica di Pavia*, tom. xix. p. 38 (1802), *colla Continuazione, la quale manca negli Annali di Chim. di Parigi. (La continuazione (Ital.) è inscritta nel* tom. xxi. (*degli Annali di Pavia*), p. 163.") *Paris*, 1802

† Memoria . . sull' identità del fluido elettrico col fluido Galvanico, letta nell' Istituto Naz. di Francia. 8vo. 37 pp. (*Ann. di Chim. di Brugnatelli*, xix. 38.) *Pavia*, 1802

(*Note.—In this memoir Volta announces his laws of tension in reference to the electricity of his Pile.*)

† Continuazione della Memoria . . sopra l'identità del fluido elettrico col fluido galvanico. 8vo. 97 pp. (*Ann. di Chim. di Brugnatelli*, xxi. 163.) *Pavia*, 1802

Observation sur l'identité du fluide galvanique avec le fluide électrique. (*Sedillot, Rec. Period. de la Soc. de Méd. de Paris*, ix. 97 et 231.) *Paris*

† Articolo di lettera del . . Volta sopra alcuni fenomeni elettrici (29 Sep. 1802.) 8vo. 3 pp. (*Ann. di Chim. di Brugnatelli*, xxi. 79.) *Pavia*, 1802

Volta, Alessandro.—*continued.*

† Lettera . . al Brugnatelli sopra l'applicazione dell' elettricità ai sordomuti dalla nascita. 8vo. 5 pp. (*Ann. di Chim. di Brugnatelli*, xxi. 100.) *Pavia*, 1802

"Lettre de Volta sur l'identité du fluide électrique avec le prétendu fluide galvanique. Pavie, 29 Floréal, an. ix. Elle a été communiquée par le professeur Brugnatelli." 8vo. (*Journ. de Chim. de Van Mons*, No. ii. p. 167.) *Bruxelles*, 1803 ?

Schreiben über Electricität und Galvanismus; herausgegeben von C. F. Nasze. i. Th. 8vo. *Halle*, 1803

Neuest. Versuche über Galvanismus Beschreib. ein. neuen Galvanometers, und and. kleine Abhandl. üb. diesen Gegenstand. 8vo. *Wien*, 1805

† Estratto di un MSS., sull' insussistenza della genesi del Clorino, e dell' Alcali nell' acqua sottoposte all' azione degli Elettromotori. ("*Il presente Estratto trovasi pubblicato nel Saggio di naturali Osservazioni sull' Elettricità Voltiana del . . Baronio a* p. 102.) 1806

† Sopra la Grandine. Ricevuta 1 Agosto, 1804. 4to. 66 pp. (*Mem. dell' Istit. Nazion. Ital.* tom. i. pt. ii. p. 125.) *Bologna*, 1806

(*Note.—It is also in the Giorn. d. Fis. Chim. . . di Brugnatelli*, 1o Bimestre, p. 31; 2o, p. 129; e 3o, p. 179 (*Pavia*, 1808); *and in the Journ. Phys.* pp. 289 and 333 of vol. lxix.)

† Sopra la Grandine. Memoria inserita nella p. ii. del tom. i. dell' Istituto nazionale Italiano. 8vo. 19 pp. (*Giorn. dell' Ital. Letter. del Dal Rio*, xviii. p. 249.) *Padova*, 1807

(*Note.—This is an extract and notice merely by the editor of the "Giornale."*)

Lettera al . . Zuccagni, A., responsiva ad altra di esso, sopra un Ignivomo. (Data) Milano, 16 Feb. 1807. (*Pubblicata nel* tom. vi. p. 87, *del Giornale Pisano.*) 1807

Estratto d'una lettera relativa alla Memoria del Chimico Sig. Porati, *Sulla possibilità d'un' accensione spontanea.* 8vo. *Milano*, 1810

† L'identità del fluido elettrico col cosidetto fluido galvanico vittoriosamente dimostrata, con nuove esperienze ed osservazioni. Memoria comunicata al Sig. P. Configliachi . . e da lui pubblicata con alcune note. Fol. 145 pp. Portrait. *Pavia*, 1814

† Collezione dell' Opere del Cav. Conte Alessandro Volta Patrizio Comasco, &c. . . (da V. Antinori). 3 vols. 8vo. (in 5 parts). 7 plates, and portrait. *Firenze*, 1816

Trattato meteorologico sopra la natura e la formazione dei Bolidi e delle Stelle-cadenti. Letto 31 Dec. 1812. 4to. (*Mem. dell' I. R. Istit. Reg. Lomb.-Veneto*, i. 24.) *Milano*, 1819

† Risposta del Volta al Marzari relativa ai cosi detti Paragrandini. 8vo. 3 pp. (*Volta's copy.*) *Como*, 1823

† Mémoire sur la formation de la Grêle, traduit par Veau-Delaunay. Première Partie. 4to. 14 pp. (*In Journ. de Phys.* ?) *Paris*

† Relazione di A. Volta di un suo viaggio letterario nella Svizzera; ora, per la prima volta, pubblicata. . . 8vo. 47 pp. *Milano*, 1827

† In morte del Conte Aless. Volta. Cantica di Giorn. Fogliani. 4to. 12 pp. *Como*, 1827

† Elogio morale del Conte Alessandro Volta di G. Zuccala. 8vo. 42 pp. *Bergamo*, 1827

Volta, Alessandro.—*continued.*

† Della vita del Conte Aless. Volta, Patrizio Comasco. 8vo. 138 pp. Portrait and 1 plate. *Como*, 1829

† Elogio del Conte Alessandro Volta, Patrizio Comasco . . dal F. Mocchetti. 4to. 82 pp. (*"Letta 7 Dec. 1833 . . per l'inaugurazione del Busto di Aless. Volta."*) *Como*, 1833

† Elogio scientifico di Al. Volta, scritto dal . . Configliachi. 4to. 56 pp. Portrait by Garavaglia. *Como*, 1834

† Lettere inedite di Aless. Volta (G. I. Montanari, editore.) 8vo. 212 pp. 1 plate. (*Configliachi's "Elogio scientifico di Volta" is added at* p. 170.) *Pesaro*, 1834

Notice biographique de, par Arago. (*From Arago's Sale Cat.* p. 179.) 1835 ?

† Elogio storico di Alessandro Volta del Sig. Arago . . estratto dagli Annali di Chimica e di Fisica di Parigi. 8vo. 80 pp. (*This translation from the French is taken from the Journal "l'Indicatore Lombardo," and appeared in the "Raccolta pratica," a periodical edited by Luigi and Zanino Volta. Luigi adds many footnotes, some of which are important and interesting.*) *Como*, 1835

† Elogio storico di Alessandro Volta del Sig. Arago . . Estratto dagli Annali di Chimica e di Fisica di Parigi. 8vo. 80 pp. (*This translation from the French is copied from the Indicatore Lombardo, a journal printed in Milan. Menini is the translator.*) *Como*, 1835

(*Note.—The translation is furnished with many good footnotes, signed L. V.* (*i.e. Luigi Volta, his second son*). *Printed in the Raccolta Pratica di Scienze, &c.* Nos. xxxiii. *e* xxxiv. March and April, 1835 (*Como*).

† Erigendosi in Como il Monumento di Aless. Volta, Patrizio Comasco. Discorsi due del Prof. F. Mocchetti. 8vo. 13 pp. *Milano*, 1838

† Biografia di Alessandro Volta (di G. Chieppa). 18vo. 12 pp. (*Estr. dalla Gazzetta Provinciale di Pavia.*) *Pavia*, 1844

† Alessandro Volta, per L. Ai Giraldi. 16mo. 18 pp. Portrait. (*"I contemporanei Italiani," Galleria Nazionale del secolo xix.*) *Torino*, 1861

† Notizie biografiche, &c. su Aless. Volta esposte dal Magrini. 4to. 53 pp. 1 plate. (*Estratto dal vol. ii. degli Atti del R. Istituto di Scienze.*) *Milano*, 1861

Un Manoscritto autografo in data di Como 15 Aprile, 1777 . . diretto, probabilmente, al Barletti. "Contiene varie sperienze sulle sue pistole: . . e la proposta di trasmettere segnali col mezzo della elettricità ordinaria." 4to. *Milano*, 1861

(*Note.—This is from a short paragraph in a "Comunicazione sui manoscritti di Volta fatta 28 Giugno, 1860," by Magrini to the R. Istituto Lombardo di Scienze . . in variotornale del 1861 di esso Ist.*)

† Sulla importanza dei Cimelj e dei Manoscritti di A. Volta. Discorso del Cav. Prof. L. Magrini . . Letto 7 Agosto, 1864. 8vo. 43 pp. *Milano*, 1864

Sul periodo de' Temporali. Lettera al . . Configliachi. 4to. (*Estratta dal* tom. x. p. 17, *del Giornale di Fisica.*) *Pavia*

(*Note.—"Deve riguardarsi come una Continuazione delle* 10 (*Lettere*) *sulla Meteorologia elettrica . . Le prime* 9 *sono dirette al . . Lichtenberg . . la decima poi è quella sulla formazione della Grandine.*)

Articolo "Eudiometro" nella traduzione di Scopolo del Dizionario di Chimica di Macquer.

Poscritto di una lettera diretta al Vassalli. "Separato dalla Terza Lettera al Vassalli per essere estraneo alla materia . . di quella lettera" (viz.) dated Como, 24 Oct. 1795.

**Volta**, Alessandro.—*continued.*

Nouvelles expériences sur le galvanisme, répétées à Paris par Robertson. (*Rec. des Actes de la Soc. de Santé de Lyon*, tom. ii. p. 376.) *Lyon*

Description abrégée de la pile électrique de Volta. 8vo. (*Journ. de Van Mons*, p. 129, No. 2.) *Bruxelles*

Über Volta's Kondensator der Elektricitat. (*Leipsiger Samml. zur Physik und Naturgesch.* iii.)

The *Times* of the 26th Jan., 1860, contains an article referring to the manuscripts and the Electric Machine of Prof. Volta. *London*, 1860

† Portrait by Rades inc. Focosi des.

† Portrait by Garavaglia des. et inc.

(*Vide* also Anon. Miscellaneous, 1833.)

(*Vide* also Cuthbertson.)

† **Volta e Bellani.** Sulla formazione della Grandine Memoria del Volta. Con un Articolo sul medesimo argomento del Bellani. 8vo. 170 pp. *Milano*, 1824

(*Note.—This is a reprint of Volta's Mem. in* tom. i. *dell' Istit. Nat. Ital.; and of Bellani's Mem. in* tom. ii. *degli Opuscoli Matem. e Fisica.*)

† **Volta e Configliachi.** Lettera del . . Volta al Configliachi . . sopra esperienze ed osservazioni da intraprendersi sulle Torpedini. Como 15 Luglio, 1805.

Risposta del Configliachi. Porto Veneto, 6 Agosto, 1805. 8vo. 34 pp. (*Ann. di Chim. di Brugnatelli*, xxii. 223-249.) *Pavia*, 1805

**Volta, A. e Mazari.** Giudizio definitivo del Prof. Conte Volta sulla questione dei Paragrandini. 8vo. *Venezia*, 1823

(*Note.—This is a letter to Mazari . . from Volta, signed at Como 9th July*, 1823, *together with a few lines prefaced by Mazari. The letter* (*without MS. preface*) *was printed at Como.*)

**Voltolini**, Rudolph. Die Anwendung der Galvanokaustik im Innern des Kehlkopfes und Schlundkopfes nebst einer Kurzen Anleitung zur Laryngoskopie und Rhinoskopie. 8vo. *Wien*, 1867

**Von Dalberg.** (*Vide* Dalberg.)

**Von Guericke.** (*Vide* Guericke.)

**Von Kolke.** (*Vide* Kolke.)

**Von Weber.** (*Vide* Weber.)

(*Note—All names having the prefix Von will be found entered under the first letter of next portion of the name, as above.*)

**Vorsselmann de Heer**, Pieter Otto Coenraad. *Born September* 20, 1809, *at Valburg, Geldern; died December* 26, 1841, *at Utrecht.*

Note sur le calcul de l'inclinaison magnétique. 8vo. (*Bibl. Univ.* lx. 1835.) *Genève*, 1835

Waarneming van vallende sterren in d. nacht v. 12-13 Nov. (*Algem. Konst- en Letterb.* 1836.) 1836

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**W.** (*Vide* Anon. Elect. 1817.)

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**Wagner, J. P.** Invented, in 1836, an Electro-Magnetical Rotation Apparatus; in 1838, a little Electro-Magnetical Carriage; and in 1840, an Apparatus for producing sound in unmagnetical metals by means of the Interrupted Galvanic Current. (*Poggendorff*, ii. 1241, *says*: "*Auf der Naturforscher-Versamml. zu Erlangen durch Prof. R. Böttger vorgezeigt.*")

Erfinder des Electro-magnet Hammers. Apparatus for the automatic closing and opening of a Voltaic arrangement, exhibited 25th February, 1837. (*Vorzeigte im physikal Verein zu Frankfurt a. M.* 27th Feb. 1837. *Siehe auch Neeff in Pogg. Ann.* xlvi. S. 107.)

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**Waitz, Jacob Siegismund von.** *Born May 16, 1698, at Gotha; died November 7, 1777, at Berlin.* (*From Pogg.* ii. 1243.)

(*Note.—This seems to be an erroneous name; his work has the initials T. H.*)

† Abhandlung: Von der Electricität und deren Ursachen: welche . . den Preis erhalten hat.

† Anonymous (*i.e.* Waitz). Zweite Abhand.: Von der Natur der Elect. . . des Drucks würdig geschätzt worden.

† Anonymous (*i.e.* Waitz). Dritte Abhand.: Von den Eigenschaften, Wirkungen und Ursachen der Elect. . . des Drucks würdig geschätz worden.

† Anonymous (*i.e.* Waitz). Dissertation sur la cause de l'Electricité des corps, et des phénomènes qui en dépendent. 4to. (*These four treatises contained in* 1 vol. *of* 237 pp. *and* 5 plates.) *Berlin*, 1745

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† Memoir on the difference between Leyden Discharges and Lightning Flashes, &c. La. 8vo. 42 pp. (*Proceed. Lond. Elect. Soc.*) *London*, 1842

Electrical Magazine, begun 1843. 8vo. *London*, 1843

† Electrotype Manipulation. 2 parts. 1st part, 1844, 14th edition. 12mo. 60 pp. 2nd part, 1843, 7th edition. 60 pp. (*Forms part of his "Manipulations in the Scientific Arts."*) *London*, 1843

† Die Galvanoplastik für Künstler, Gewerbetreibende und Freunde der Numismatik von C. Walker. Nach der 10ten Auflage mit Anmerk. von Dr. C. H. Schmidt. 177 pp. 4 plates. *Weimar*, 1843

† On the Electricity of Paper-Mills, and an Analysis of Friction. 8vo. 3 pp. (*Elect. Magaz. for* Oct. 1845.) *London*, 1845

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(*Vide* also Lardner and Walker.)

(*Vide* also London Electrical Society.)

(*Vide* La Rive, De.)

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† **Walker** and **Hunt.** Memoirs of the Distinguished Men of Science of Great Britain, living A.D. 1807-8, by W. Walker, jun., with an Introduction by Robert Hunt, F.R.S. 2nd edition. 160 pp. *London*, 1864

† **Walker** and **Mitchel.** Moigno says, "Plusieurs Mémoires de . . Walker et Michel ont été publiés (on the subject of the Retardation of Signals) in the "Journal Astronomique de Cambridge" de 1848 (U.S.).

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**Wargentin**, Pehr Vilhelm. *Born September 22, 1717, at Siknes Prestgard, Jemtland; died December 13, 1783, at Stockholm.*

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**Wartmann**, Elie François. *Born November 7, 1817, at Geneva.*

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† Troisième Mém. sur l'induction. 8vo. 18 pp. 1 plate. (*Acad. de Bruxelles. Ext.* xiv. No. 3, *Bulletins. Commun. le* 20 *Mai*, 1846, *à la Société Vaudoise des Sciences, and to others.*) *Bruxelles*, 1846

† Mém. sur deux Balances à réflexion. 4to. 31 pp. Plates. (*Soc. de Genève*, xi. 115, 1846.) *Genève*, 1846

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† Quatrième Mém. sur l'induction. 8vo. 16 pp. 1 plate. (*Archives de l'Elect.*) (*Faraday's copy.*) *Genève*

† Cinquième Mém. sur l'induction. 8vo. 9 pp. 1 plate. (*Acad. de Belgique, Ext.* xv. No. 4, *Bulletins.*) *Bruxelles*

Sixième Mém. sur l'induction. 8vo. (*Bibl. Univ. de Genève*, viii. 45, 1848.) *Genève*, 1848

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Nouv. recherches relatives à l'action du magnétisme sur différents corps. 8vo. (*Arch. d. Scienc. Phys. et Nat.* viii.) *Genève*, 1848

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† Recherches sur l'électricité animale par M. E. Du Bois Reymond (Analysis). 8vo. 8 pp. (*Bibl. Univ. de Genève*, Juin, 1850.) *Genève*, 1850

† Note sur les courants électriques qui existent dans les végétaux. 8vo. 8 pp. (*Bibl. Univ. de Genève*, Dec. 1850.) *Genève*, 1850

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† Note sur quelques expériences faites avec le fixateur électrique. 8vo. 8 pp. (*Bibl. Univ. de Genève*, Aug. 1852.) *Genève*, 1852

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† Sur l'éclairage électrique. 8vo. 12 pp. 1 plate. (*Bibl. Univ. de Genève*, Dec. 1857.) *Genève*, 1857

† Description d'appareils destinés à établir une correspondance immédiate entre deux quelconques des stations situées sur une même ligne télégraphique. 8vo. 22 pp. 1 plate. (*Bibl. Univ. de Genève*, Mai, 1853.) *Genève*, 1853

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† Description du compensateur voltaïque destiné à maintenir l'intensité d'une pile. Lu à la Classe d'Industrie (Acad. de Genève) le 19 Déc. 1853. 8vo. 7 pp. 1 plate. (*Archives des Sciences . .* Janv. 1858. Dated 1 Sep. 1853.) *Genève*, 1858 ?

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† Sur les vibrations qu'un courant élect. discontinu fait naître dans le fer doux ; et sur la non-existence d'un courant électr. dans les nerfs des animaux vivants. 8vo. 5 pp. (*Ext. Acad. de Belgique*, xiii. No. 5, *Bulletins. Ext. d'une lettre de M. E. Wartmann . . M. Quetelet.*) Bruxelles

**Wartmann**, Elie François.—*continued.*

Descrip. du Télégraphe militaire de M. Hipp. 8vo. (*Bibl. Univ. de Genève*, xxxiii. 109.) *Genève*

† Sur les nouveaux Rapports entre la Chaleur, l'Elect. et le Magnétisme. 8vo. (*Bibl. Univ. de Genève*, Nouv. Série, i. 457.) *Genève*

**Wartmann**, Louis François. *Born January 7, 1793, at Geneva.*

† Notice sur l'Aurore boréale observée à Genève le 18 Oct. 1836. Lu à la Soc. de Genève . . 3 Nov. 1836. 8vo. 11 pp. (*Tiré de la Bibl. Univ. de Genève*, Oct. 1836.) *Genève*, 1836?

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Description of the Electro-Magnetic Clock. 8vo. (*Proc. Roy. Soc.* 1840.) *London*, 1840

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Electro-magnetic Registerer of Meteorological Observations. 8vo. (*Brit. Assoc. Reports*, 1842, p. 9.) *London*, 1842

(*Note.—This instrument, said by Moigno, Kuhn, Du Moncel, &c. to exist at the Kew Observatory, was* never there, *although ordered for that establishment by the British Association, who paid Wheatstone for it.*—FRANCIS RONALDS, *Director of the Observatory.*)

Thermomètre télégraphique, etc. Note. 8vo. (*Bulletin de l'Acad. de Bruxelles*, Mai, 1843.) *Bruxelles*, 1843

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(*Vide* also Cooke, W. F. and Wheatstone.)

**Wheeler,** Granville. *Died May* 16, 1770.

† Some Electrical Experiments, chiefly regarding the repulsive force of Electrical bodies. Communicated in a Letter to C. Mortimer, Sec. R. S. (dated January 17, 1737-8). 4to. (*Phil. Trans.* xli. 98 and 112.) *London*, 1739-41

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† Two Letters from G. W. to the President concerning a rotatory motion of Glass Tubes about their axes. 4to. 8 pp. (*Phil. Trans.* xliii. 341.) *London*, 1744-5

**Whewell,** William. *Born May* 24, 1794, *at Lancaster; died* 1867.

† Report on the recent progress of the Mathematical theories of Electricity and Magnetism and Heat. 8vo. 34 pp. *London*, 1836

History of the Inductive Sciences, from the Earliest to the Present Time. 3 vols. 8vo. 1837

Astronomy and Physics. (Bridgewater Treatise.) New edition. 12mo. *London*, 1847

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† **Whipple,** Blodget, &c. Astronomical, Magnetical, and Climatological Observations made on a Route from the Mississippi to the Pacific. 4to. 290 pp. *Washington*, 1856

**Whiston,** William. *Born December* 9, 1667, *at Norton, Leicestershire; died August* 22, 1752, *at London.*

An account of a surprising Meteor seen in the air, &c. 8vo. *London*, 1716

An account of another surprising Meteor. 8vo. *London*, 1719

† The longitude and latitude found by the Inclinatory: . . to which is subjoined Mr. Robert Norman's new attractive. 8vo. 115 pp. 2 plates of Whiston. 43 pp. of Norman (reprint dated 1720). (*Vide Norman.*) *London*, 1721

† **White,** W. H. On the variation of the Needle, as observed during a voyage to and from India. 8vo. 1 p. (*Phil. Mag. or Annals*, vi. 153.) *London*, 1829

† Observations on Auroræ Boreales, witnessed at Bedford at various times from April 19th, 1830, to January 11th, 1831. 8vo. 3 pp. (*Phil. Mag. or Annals*, ix. 393.) *London*, 1831

**Whitehouse,** E. O. W. The Atlantic Telegraph. 8vo. *London*, 1858

**Wibel.** Versuche über die Reduction von Kupferoxyd-Salzen durch Eisenoxydul-Salze zu metallischen Kupfer oder Kupferoxyd. 47 pp. *Hamburg*, 1864

**Wiedeburg,** Johann Ernst Basilius. *Born June* 24, 1733, *at Jena; died January* 1, 1789, *at Jena.*

Beobachtungen und Müthmassungen über d. Nordlichter. 8vo. *Jena*, 1771

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† **Wiedemann,** G. Über die Bewegung von Flüssigkeiten im Kreise der geschlossenen galvanischen Säule. 8vo. 32 pp. (*Poggend. Ann.* lxxvii.) *Leipzig*, 1852?

† Die Lehre vom Galvanismus und Elektro-magnetismus. 2 vols. 8vo. 680 pp. and 1183 pp. *Braunschweig*, 1863

Die Lehre vom Galvanismus u. Electro-magnetismus. Vol. i. Galvanismus; ii. Verm. Auflage. 8vo. *Braunschweig?* 1872

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(*Note.—He wrote two other works, both on Animal Magnetism.*)

**Wies.** Thesis. (Galvanism.) (*Not in Pogg.*) *Strasbourg*, 1804

† **Wikstrom, A.** Erfahrung wegen der Störung der Magnetnadel, durch die Elektricität. 8vo. 2 pp. (*K. Schwed. Akad. Abh.* xx. 157.) *Hamburg and Leipzig*, 1758

† **Wilbrand, J. B.** Das Gesetz des polaren Verhaltens in der Natur. "Dargestelt in den magnetischen, elektrischen u. chemischen Natur . . " 8vo. 353 pp. *Giessen*, 1819

**Wilcke, Johann Karl.** *Born September 6, 1732, at Wismar, Mecklenbourg; died April 18, 1796.*

† Anmerkung zu. Eliz. Chr. Linnæa; Vom Blizen der indianischen Kresse.

Disputatio inauguralis physica experimentalis de electricitatibus contrariis. 4to. *Rostock*, 1757

† Franklin's Briefe . .; nebst Anmerkungen. 12mo. *Leipzig*, 1758

† Electriska rön och-försök om den electriska laddningens och stötens ästad kommande vid flera kroppa än glas oth porcellain. 8vo. (*Vetensk. Acad. Handl.* an. 1758, p. 260.) *Stockholm*, 1758

† Elektrische Versuche und Untersuchungen, wie die elektrische Ladung und Schlag durch mehrere Körper als Glas und Porzellan erhalten werden können. 8vo. (*Schwedische Akad. Abhandl.* an. 1758, p. 241, vol. xx.) *Stockholm*, 1758

† De natuurkunnigas meningar om orsakerna til äske-dundret. 8vo. (*Vetensk. Acad. Handl.* an. 1759, pp. 79 and 159.) *Stockholm*, 1759

† Die Meynungen der Naturforscher von den Ursachen des Donners. 8vo. 19 pp. (*Schwedische Akad. Abhandl.* an. 1759, pp. 81 and 155.) *Hamburg and Leipzig*, 1759

† Rön och tankar om snofigurens skiljaktighet; zuei Aufsätze. 8vo. (*Vetensk. Acad. Handl.* 1761.) *Stockholm*, 1761

† Ytterligare rön och försök om contraire electricitaterne vid laddningen och där til horande de lar. 8vo. (*Vetensk. Acad. Handl.* an. 1762, pp. 206 and 245.) *Stockholm*, 1762

† Fernere Untersuchungen von den entgegengesetzten Elektricitäten bey der Ladung und den dazu gehörenden Theilen. 8vo. 46 pp. and 22 pp. 1 plate. (*Schwedische Akad. Abhandl.* an. 1762, pp. 213 and 253, vol. xxiv.) *Hamburg and Leipzig*, 1762

† Beskrifning pa en ny declinations-compass hvarmed magnet-nalens afvikande ifrän Norrstreket finnas kan, utan middags-linia. 8vo. (*Vetensk. Acad. Handl.* an. 1763, p. 143.) *Stockholm*, 1763

† Beschreibung eines neuen Abweichungs-Compasses womit die Abweichung der Magnet-Nadel von Norden ohne Mittags-Linie zu finden ist. 8vo. 11 pp. 1 plate. (*Schwedische Akad. Abhandl.* an. 1763, p. 154, vol. xxv.) *Hamb. u. Leipz.* 1763

† Electriska försök med Phosphorus. 8vo. (*Vetensk. Acad. Handl.* an. 1763, p. 195.) *Stockholm*, 1763

† Elektrische Versuche mit Phosphorus. 8vo. 20 pp. 1 plate. (*Schwedische Akad. Abhandl.* an. 1763, p. 207, vol. xxv.) *Hamburg and Leipzig*, 1763

Tal om Magneter. 8vo. (*From Young*, p. 436.) *Stockholm*, 1764

† Om magnetiska kraftens upväkande genom electricitet. 8vo. (*Vetensk. Acad. Handl.* an. 1766, p. 294.) *Stockholm*, 1766

† Von Erregung der magnetischen Kraft durch die Electricität. 8vo. 22 pp. 1 plate. (*Schwedische Akad. Abhandl.* an. 1766, p. 306, vol. xxviii.) *Leipzig*, 1766

† Historien om Turmalinen. 8vo. (*Vetensk. Akad. Handl.* 1766 and 1768.) *Stockholm*, 1766 *and* 1768

† Geschichte des Tourmalins. 8vo. 19, 24, and 24 pp. (*K. Schwed. Akad. Abh.* vol. xxviii. 95 pp. and xxx. 3 pp. and 105 pp.) *Leipzig*, 1868

**Wilcke**, Johann Carl.—*continued.*

† Anmürkning vid föregående rön. 8vo. (*Vetensk. Acad. Handl.* an. 1767, p. 319, *and in Schwedische Akad. Abhandl.* an. 1767, p. 333, vol. xxix. 2 pp.) *Stockholm*, 1767

† Försök til en magnetisk inclinations-charta. 8vo. (*Vetensk. Akad. Handl.* an. 1768, p. 193.) *Stockholm*, 1768

† Versuch einer magnetischen Neigungscharte. 8vo. 29 pp. Chart. (*K. Schwed. Akad. Abh.* xxx. 209.) *Leipzig*, 1768

† Electriska försök pä här och smalta metaller. 8vo. (*Vetensk. Acad. Handl.* an. 1769, p. 319.) *Stockholm*, 1769

† Elektrische Versuche mit Haaren und geschmelzten Metallen. 8vo. 6 pp. (*Schwedische Akad. Abhandl.* an. 1769, p. 317, vol. xxxi.) *Leipzig*, 1769

Nya Rön om vattnets frysning till snölika is-figurer. 8vo. (*Vetensk. Acad. Handl.* 1769.) *Stockholm*, 1769

Electriska försök pår hår och smälta metaller. 8vo. (*Vetensk. Acad. Handl.* 1769.) *Stockholm*, 1769

† Anmärkningar vid et d. 30 Maji, 1769, här i Staden timadt äske-slag. 8vo. (*Vetensk. Acad. Handl.* an. 1770, p. 112.) *Stockholm*, 1770

† Bemerkungen bey einem d. 30 May in Stockholm geschehenen Donner-Schlage. 8vo. 11 pp. 1 plate. (*Schwedische Akad. Abhandl.* an. 1770, p. 115, vol. xxxii.) *Leipzig*, 1770

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† Neigung der Magnetnadel, nebst Beschreibung zweener Neigungs compasse. 8vo. 13 pp. 2 plates. (*K. Schwed. Akad. Abh.* xxxiv. 285.) *Leipzig*, 1772

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† Anmerkungen zu H. Capt. Ekeberg's eingegebenen Beobachtungen über die magnetische Nutzung. 8vo. 8 pp. (*K. Schwed. Akad. Abh.* xxxvii. 298.) *Leipzig*, 1775

† Undersokning om de vid Volta's nya elettrophoro perpetuo forekommande electrische phenomener. 8vo. (*Vetensk. Acad. Handl.* an. 1777, pp. 56, 128, 216.) *Stockholm*, 1775

† Untersuchung der bey Volta's neuen electrophoro perpetuo vorkommenden elektrischen Erscheinungen. 8vo. 25, 15, 17 pp. 1 plate. (*Schwedische Akad. Abhandl.* an. 1777, pp. 54, 116, 200, vol. xxxix.) *Leipzig*, 1777

† Rön om magnet-nalens årliga och dugeliga andringa i Stockholm. 8vo. (*Vetensk. Acad. Handl.* an. 1777, p. 273.) *Stockholm*, 1777

† Über der Magnet-Nadel jährliche und tägliche Aenderungen zu Stockholm. 8vo. 26 pp. (*Schwedische Akah. Abhand.* an. 1777, p. 259, vol. xxxix.) *Leipzig*, 1777

Tal om de nyeste förklaringar af norrskenet. 8vo. *Stockholm*, 1778

† Försök til uplysning om luft-huirflar och sky-drag. 8vo. (*Vetensk. Acad. Nya Handl.* an. 1780, pp. 1 and 83; an. 1782, p. 3; an. 1785, p. 290; an. 1786, p. 3.) *Stockholm*, 1780-2-5-6

Versuche zur Erläuterung der Luft-Wirbel und Wasser-Hosen. 8vo. (*Neue Schwedische Akad. Abhandl.* an. 1780, pp. 3 and 81; 1782, p. 3; 1785, p. 271; 1786, p. 3. *Leipzig*, 1780-2-5-6

Von den neuesten Erklärungen des Nordlichts. 8vo. (*Schwedisches Museum*, tom. i. p. 31.) *Wismar*, 1783

Anmärkn. vid ett af Gerdes beskrifvet skydrag. (*Vetensk. Acad. Handl.* 1790.) 1790

**Wilcke**, Johann Karl.—*continued.*

† Anmerkung über vorerwähnten Wolken-zug (*i.e.*) der Wasser-Wirbel des 10 August, 1790, in Malar. (*Vide* Sandwall, Relation . . ) (*Neue Schwedische Akad. Abhandl.* an. 1790, p. 199.) *Stockholm*, 1790

† Über den Magneten. Germ. by Gröning. "Vorgelesen, 1 Feb. 1764." 8vo. 40 pp. (*Volta's copy.*) *Leipzig*, 1794

Über d. Magneten. Vorlesung gehalten in der Schwedischen Akademie der Wissench. zu Stockholm a. d. Schwed. übers. u. herausg. v. Gröning. 8vo. *Leipzig*, 1794-5

**Wild**, Franz Samuel. *Born* 1743, *at Bern; died April* 16, 1802.

Expériences sur l'Electricité des Cascades. (*Mém. de Lausanne*, iii. *Hist.* p. 13, 1790.) *Lausanne*, 1790

† Ragguaglio di due fenomeni straordinari. Tratto da una lettera . . all' . . Amoretti. 4to. 1 p. *Milan*, 1792

† **Wild**, H. Theorie d. Nobilischen Farbenringe. 4to. 42 pp. 1 plate. *Zürich*, 1857

† Die Selbstregistrirenden Meteorologischen Instrumente der Sternwarte in Bern. 8vo. 41 pp. 9 plates. (*Extraabdruck aus dem* ii. *Bande von Carl's Repertorium.*) *München*, 1866

**Wild**, M. F. Weitere Beschreibung der in des vii. Bandes, 3ten Stück, Seite 73 vorgekommenen Elektrisirmaschinen. 8vo. 27 pp. 4 plates. (*Voight's Mag.* vii. 4th Stuck, p. 77.) *Gotha*, 1792

**Wilde.** New Magneto-electric Machine. *London*, 1866-7

**Wilhelm**, H. M. Semicenturia observationum electricarum. *Wirceburg*, 1774

**Wilkens.** (*Vide* Linnæa, E. C.)

**Wilkes**, C. (Commander of the U.S. Exploring Expedition). Meteorology. Journal of Meteorological Observations, vol. xi. (of the collection of 16 vols.) 4to. 726 pp. 25 illustrations, map, and 24 plates. *Philadelphia*, 1851

† Theory of the Zodiacal Light. (Read at the American Association for Advt. of Science, at Montreal, August, 1857.) 4to. 16 pp. 1 plate. *Philadelphia*, 1857

**Wilkins**, John (Bishop of Chester; First Secretary of the Royal Society). *Born* 1614, *at Fawsley, near Daventry; died November* 19, 1672, *in London.* (*From Poggendorff*, ii. 1328.)

Mercury; or, The secret and swift Messenger, showing how a man may with privacy and speed communicate his thoughts to a friend at any distance. 8vo. (*Also in his Mathematical and Philosophical Works*, 8vo. London, 1708.) *London*, 1641

**Wilkinson**, C. H. Tentamen philosophico-medicum de Electricitate. 8vo. *Edinburgh*, 1783

An Essay on the Leyden Phial ("with a view of explaining this remarkable phenomenon on pure mechanical principles.") 8vo. 220 pp. Plates. *London*, 1798

† An Analysis of a course of Lectures on . . Natural Philosophy. 8vo. 141 pp. *London*, 1799

(*Note.—This is annexed to his "Effects of Electricity in Paralytic, &c. affections.*)

† The Effects of Electricity in Paralytic . . affections, &c. 8vo. 76 pp. *London*, 1799

† Elements of Galvanism in Theory and Practice . . 2 vols. 8vo. *London*, 1804

† Description of an improved Galvanic Trough 8vo. 2 pp. 1 plate. (*Phil. Mag.* xxix. 243.) *London*, 1808

† Explanation of his Mechanical Theory of Electricity. 8vo. 2 pp. (*Phil. Mag.* xlix. 299.) *London*, 1817

**Wilkinson**, George. Medical Facts . iii. p. 52. 1792

† **Willard**, J. Observations made at Beverley, lat. 42° 36′ N., long. 70° 45′ W., to determine the variation of the Magnetical Needle. 4to. 4 pp. (*Mem. Amer. Acad.* Old Series, i. 318, pt. ii.) *Boston, U.S.* 1785

† **Wille**, C. F. Om Kompassets deviation væsentligst paa jernskibe, samt kortfatlet udsigt over læren om magnetisme med 23 tegninger og 3 karter. Udgivet med bidrag ef det k. marine- og post-department. 8vo. 84 pp. *Kristiania*, 1869

**Willemet.** Sur l'usage du Fluide Electrique dans l'économie animale.

† **Williams**, Samuel. A Memoir on the Latitude of the University of Cambridge: with Observations of the Variation and Dip of the Magnetic Needle. 4to. 8 pp. (*Mem. Amer. Acad. of Arts, &c.* i. 62.) *Boston, U.S.* 1785

Magnetic Observations made at the University of Cambridge . in the year 1785. 4to. 1 page. (*Trans. Amer. Phil. Soc.* Old Series, vol. iii. p. 115.) *Philadelphia*, 1793

**Williams**, W. Compass Deviation Recorder for iron Ships. Fol. *London*, 1859

**Williams**, Z. An attempt . . Longitude . . Magnetic Needle. (In Italian and English.) 4to. (*From Watt.*) *London*, 1755.

**Willigen**, van der V. S. M. Proeven betreffende den Galvanischen Lichtboog 8ve. *Deventer*, 1854

† **Wilmer**, B. Lettera a Guglielmo Sharpe sullo strano abbruciamento di una Donna seguito a Coventry. 4to. 2 pp. (*Scelta d'Opusc.* Nuova ed. iii. 36. *Trans. by Soave, with his Note.* 12mo. edition, printed in 1777.) *Milano*

**Wilson**, Benjamin. *Born about* 1708; *died June* 6, 1788, *at London.*

† Essay towards an Explanation of the Phænomena of Electricity. 8vo. 95 pp. 1 plate. *London*, 1746

Experiments on the Law of Accumulation of Electricity in the Leyden Phial. (Read, as per minutes of Royal Society, Oct. 23, 1746, "though the original was lost or mislaid.") 1746

Letter to Mr. Ellicot on the issue of the Electric Fluid from the Earth, not from the globe (of the Electric Machine), when rubbed. *About* 1746

Short View of Electricity. 8vo. *London*, 1750

† Treatise on Electricity, by B. W. 1st edition. 8vo. 5 plates. 223 pp. *London*, 1750

† Treatise on Electricity. 2nd edition. 8vo. 224 pp. Plates. *London*, 1752

Observations on a series of Electrical Experiments by Dr. Hoadly and Mr. Wilson. 2nd edition. With alterations, and the addition of some experiments, letters, and explanatory notes, by B. Wilson. 4to. *London*, 1759 (*Note.—There is a German translation of* 1763.)

† Auszug aus einem Briefe . an Thorbern Bergman . . einige neue Versuche, die Elektricität betreffend. 8vo. 3 pp. (*K. Schwed. Akad. Abh.* xxiii. 313.) *Hamburg and Leipzig*, 1761

Observations on Lightning, and the method of securing Buildings from its effects. In a letter to Sir Charles Frederick. 4to. 68 pp. (*Phil. Trans.* an. 1773, p. 49.) *London*, 1773

† Further Observations on Lightning. 4to. 26 pp. *London*, 1774

† A Series of Experiments relating to Phosphori . (92 pp.), together with a translation of two Memoirs from the Bologna Acts upon the same subject, by T. B. Beccari, Prof. of Bologna. 1st edition. 4to. 96 pp. *London*, 1775

† A Series of Experiments on the subject of Phosphori and their prismatic colours; in which are discovered some new properties of Light. Also a translation of two Memoirs of the late T. B. Beccari, Professor of Philosophy at Bologna, taken from the Bologna Acts. 2nd edition, with additions.) 4to. 117 pp. *London*, 1776

New Experiments and Observations on the nature and use of Conductors. 4to. *Phil. Trans.* pt. i. p. 245.) *London*, 1777

**Wilson**, Benjamin.—*continued.*

† An account of Experiments made at the Pantheon, on the nature and use of Conductors; to which are added some new Experiments with the Leyden Phial. Read at the meetings of the Royal Society. 4to. 100 pp. 4 plates. *London*, 1778

(*Note.—First printed in Phil. Trans.* vol. lxviii.)

† Short View of Electricity. 4to. 37 pp. 1 plate. *London*, 1780

Short View, &c. 4to. (*From Watt, error in date?*) *London*, 1781

Letter to Hoadly on a Chain, &c. (*From Priestley.*)

(*Vide* also Hoadly and Wilson.)

**Wilson**, George. *Born February* 21, 1818, *at Edinburgh; died November* 22, 1859, *at Edinburgh.*

† Electricity and the Electric Telegraph, &c. 12mo. 77 pp. *London*, 1852

† The Progress of the Telegraph. 12mo. 60 pp. *Cambridge*, 1859

† Electricity and Electric Telegraph; to which is added The Chemistry of the Stars. New edition. 12mo. 50 pp. *London*, 1859

† **Wilson**, W. Hints respecting a speedy decomposition of Water by means of Galvanism. 8vo. 3 pp. (*Phil. Mag.* xxii. 260.) *London*, 1805

**Windham**, Colonel. Observations on the Dipping Needle, made about 1672.

**Window**, F. R. On the Electric Telegraph, and the principal improvements in its construction. 1852

**Wingfield**, John. (*Vide* Cuthbertson.)

**Winkler**, G. Gott u. d. Christ im Gewitter, nebst e. physikal. Anhange v. Gewitter. *Leipzig*, 1784

**Winkler**, Johann Heinrich. *Born March* 12, 1703, *at Wingendorf, Oberlausitz; died May* 18, 1770, *at Leipzig.*

Gedanken von den Eigenschaften, Wirkungen und Ursachen der Electricität, nebst einer Beschreibung zwo neuer elektrischen Maschinen. 8vo. 3 pls. *Leipzig*, 1744

Abstract from his book just published at Leipsig, 1744. 4to. (*Phil. Trans. Ab.* x. 270.) *London*, 1744

† Abstract of what is contained in a book concerning Electricity just published at Leipzic, 1744, by J. H. Winkler. Read Nov. 22, 1744. 4to. 4 pp. (*Phil. Trans.* xliii. 166.) *London*, 1744-5

New Observations on Electricity. 4to. (*Phil. Trans. Ab.* x. 273.) *London*, 1744-5

† Regiæ Societati Anglicanæ Scient. quædam electricitatis recens observata exhibet J. H. Winkler. Presented March 21, 1744-5. 4to. 8 pp. 1 plate. (*Phil. Trans.* xliii. 307.) *London*, 1744-5

Die Eigenschaften der elektrischen Materie u. des elektrischen Feuers, aus verschiedenen neuen Versuchen erklärt, und nebst etlichen neuen Maschinen zum Electisiren beschrieben. 8vo. 164 pp. 4 plates. *Leipzig*, 1745

Quædam electricitatis recens observata. 4to. (*Phil. Trans.* an. 1745, p. 307.) *London*, 1745

Die Stärke der elektrischen Kraft des Wassers in gläsernen Gefässen, welche durch den Musschenbrockischen Versuch bekannt geworden, erklärt von J. H. Winkler. 8vo. 164 pp. 2 plates. *Leipzig*, 1746

Letter on Effects of Electricity on himself and his wife. 4to. (*Phil. Trans. Ab.* x. 327.) *London*, 1746

Abhandlung von der Ursprung des Wetterleuchtens. 1746

† Epistola Winkleri J. H. ad Societatem Regalem Londinensem data, quæ continet descriptionem et Figuras Pyrorgani sui Electrici. Read May 7, 1747. 4to. 6 pp. 1 plate. (*Phil. Trans.* xliv. 497.) *London*, 1746-7

**Winkler,** Johann Heinrich.—*continued.*

Epistola quæ continet descriptionem et figuras pyrorgani sui electrici. 4to. (*Phil. Trans.* an. 1747, p. 497.) *London*, 1747

† Novum reique medicæ utile Electricitatis inventum exponit. Read March 31, 1748. 4to. 9 pp. (*Phil. Trans.* xlv. 262.) *London*, 1748

† Novum rei medicæ utile electricitatis inventum. 4to. (*Phil. Trans.* an. 1748, p. 262.) *London*, 1748

† Essai sur la nature, les effets, et les causes de l'électricité, avec une description de deux nouvelles machines à électricité. Traduit de l'Allemand. 12mo. 156 pp. 2 plates. *Paris*, 1748

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† Esperienze risguardanti la direzione e intensità delle correnti magneto-elettriche 8vo. 10 pp. *Brescia*, 1835

† Della dinamica e statica Magneto-Elettrica. Memoria. Presentata con lettura all' Ateneo di Brescia, 8 Mar. 1836. 8vo. 11 pp. (*Bibl. Ital.* lxxx. 399.) *Milano*, 1836

Zantedeschi, Francesco.—*continued.*

† Della polarizzazione dei conduttori isolati diretti a determinati punti del globo e di un nuovo apparecchio per esplorare l'elettricità atmosferica chiamato elettro-magnetometro. 8vo. 13 pp. *Milano*, 1837 †

† Della dinamica e statica magneto-elettrica. Memoria presentata con lettura all' Ateneo di Brescia 8 Marzo, 1836. 4to. 8 pp. *Padova*, 1837 †

† Dell' influenza reciproca dell' elettro-magnetismo dei corpi; nota. 4to. 4 pp. *Padova*, 1837 †

† Sulla priorità dell' azione elettrica dell' atmosfera nell' alterare la virtù delle magnete. 8vo. 2 pp. (*Bibl. Ital.* lxxxv. 139.) *Milano*, 1837 †

Della natura delle calamite e degli scandagli magnetici. Memoria. 8vo. 8 pp. (*Bibl. Ital.* lxxxvi. 131.) *Milano*, 1837

† Ricerche sul termo-elettricismo dinamico e luce-magnetica ed elettrica. 72 pp. 1 plate. *Milano*, 1837. †

† Esperimenti d'induzione e polarizzazione termo-elettrica. 8vo. 4 pp. (*Bibl. Ital.* lxxxix. 123.) *Milano*, 1838 †

† Saggi dell' elettro-magnetico e magneto-elettrico. 8vo. 169 pp. 3 plates. *Venezia*, 1839 †

† Brano di lettera del . . F. Zantedeschi al . prof. Carlini. 8vo. 3 pp. (*Bibl. Ital.* xcvii. 124.) *Milano*, 1840

† Risposta all' articolo della Bibl. Ital. sui Saggi elettro-magnetico, etc. 8vo. 4 pp. (*Bibl. Ital.* tom. x. pp. 269 and 272.) *Milano*, 1840 †

† Memoria sulle Leggi fondamentali che governano l'elettro-magnetismo. 8vo. 22 pp. (*Poligrafo di Verona*, tom. i. p. 200.) *Verona*, 1840 †

† Relazione storico-critica-sperimentale sull' elett.-magn. 8vo. 56 pp. 1 plate. *Venezia*, 1840 †

(*Note.*—Called (at p. 10) *Mem. prima, but no seconda was printed.*)

† Della Elettrotipia. Memorie. 4to. 52 pp. 6 plates. *Venezia*, 1841 †

† Risultamenti . . di nuove esperienze fatte sull' induzioni dinamiche. (Presentati all' I. R. Istituto, 9 Marzo, 1841.) Nota sull' induzione termo-elettrica . . letta alla riunione scientifica di Torino tenuta nel Settembre del 1840. 4to. 3 pp. (*Annali . del Reg. Lomb.-Veneto*, xi. 36 and 37.) *Vicenza*, 1841 †

Delle correnti elettro-vitali. (*Atti Istit. Veneto, Ser.* 1. vol. i. 1841.) *Venezia*, 1841

Delle correnti elettriche delle Torpedini. (*Fauna Ital. del Principe di Canino, all' Articolo Torpedo Narce; Bull. Acad. Brux.* viii. 1841.) 1841

† Estratto di alcune esperienze dalla memoria inedita del Prof. Zantedeschi che ha per titolo, "Dei nodi termo-elettrici dell' apparato Voltiano, letto all' I. R. Istituto in Venezia . . 12 Luglio, 1841." 4to. 4 pp. 1 woodcut. (*Ann. del Reg. Lomb.-Veneto*, xi. 135.) *Vicenza*, 1841 †

† Lettera al Fusinieri sulla induzione dinamica attraverso involucri e diaframmi di ferro. 4to. (*Ann. . del Reg. Lomb.-Veneto*, xi. 228.) *Vicenza*, 1841 †

† Lettera al Fusinieri sull' indizionometro dinamico differenziale, &c. . . 4to. 1 p. (*Annali Sci. Reg. Lomb.-Veneto*, xi. 226 and 238.) *Vicenza*, 1841 †

† Sui conduttori bipolari e unipolari termo-elettrici. 4to. 2 pp. (*Ann. Scien. Reg. Lomb.-Veneto*, xi. 261.) *Vicenza*, 1841 †

† Osservazioni ed Esperienze sulle condizioni, e sulle leggi, dei fenomeni elettro-termici dell' apparato Voltiano; e sulle cause che sono loro assegnate dai fisici. Memoria. 4to. 20 pp. †

† Continuazione e fine della Memoria. . . . 4to. 6 pp. †

† Tabella elettro-termica relativa alla Memoria del Zantedeschi al precedente pag. 23. 4to. 1 p. (*Ann. . del Reg. Lomb.-Veneto*, xii. 13, 65, and page not numbered.) *Vicenza*, 1842 †

Zantedeschi, Francesco.—*continued.*

† Di alcune modificazioni fatte alla macchina magneto-elettrica di Newman e dei speciali esperimenti eseguiti con essa. Memoria. Presentata all' . . I. R. Istituto Veneto. 18 Dec. 1840, e letta . . 27 Dec. 1840. 4to. 10 pp. 1 plate. (*Ann. Scien. Lomb.-Veneto*, xii. 73.) *Vicenza*, 1842

† Risposta all' accuse date sulla priorità di alcune scoperte dal . . Majocchi al . Zantedeschi (Annali di Fisica, Chimica e Matematiche di Milano, Aprile, 1842, pag. 89.) 4to. 14 pp.

† Seguito della Risposta . . e Nota di Fusinieri. 4to. 2 pp. (*Ann. . del Reg. Lomb.-Veneto*, xii. pp. 193 and 276.) *Vicenza*, 1842

Sopra alcuni fenomeni che presentano i poli di un Elettromotore Voltiano, e, precisamente, sopra la facoltà calorifica e combustiva. Memoria. 8vo. (*Ital. Soc. Mem.* xxiii. 10.) *Venezia*, 1842

† Dei conduttori bipolari e unipolari termo-elettrici. 8vo. 2 pp. (*Giorn. I. R. Istit. Lomb.* iii. 441.) *Milano*, 1842

† Le leggi del Magnetismo nel filo congiuntivo percorso dalla corrente voltiana. 8vo. 7 pp. 1 plate. *Venezia*, 1843

Dell' influsso dei raggi solari sulla vegetazione delle piante. 4to. (*Mem. dell' Istit. Veneto*, i. 269.) *Venezia*, 1843

Le leggi elettro-magnetiche. 8vo. *Verona*, 1843

† Risposta . . all' articolo del Prof. Majocchi intitolato, "Alcune osservazioni risguardanti le correnti magneto-elettriche." 4to. 3 pp. (*Ann. . del Reg. Lomb.-Veneto*, xiii. 10.) *Vicenza*, 1844

† Dell' esistenza delle due opposte correnti di materia attenuata nell' elettromotore Voltiano. Esperienze del . F. Zantedeschi (comunicata il giorno 8 Gennajo, 1844, all' Ateneo Veneto.) (Con piccola Nota di Fusinieri.) 4to. 4 pp. (*Ann. . del Reg. Lomb.-Veneto*, xiii. 13.) *Vicenza*, 1844

Delle induzioni dinamiche leido-elettriche. (*Atti Istit. Veneto*, Ser. i. vol. iii. 1844.) *Venezia*, 1844

† Del movimento vorticoso o a spirale della luce voltiana, e di altri fenomeni osservati ai due poli dell' elettromotore del Volta. 4to. 2 pp. (*Ann. . del Reg. Lomb.-Veneto*, xiii. 107.) *Vicenza*, 1844

† Del trasporto della materia pesante nelle due opposte correnti dell' apparato voltiano, della loro Natura, e del moto vorticoso, o a spirale, dell' arco luminoso. Memoria. 4to. 11 pp. (*Ann. . del Reg. Lomb.-Veneto*, xiii. 169.) *Vicenza*, 1844

† Memoria sul Termo-Elettricismo Dinamico nei circuiti formati di un solo metallo. 4to. 13 pp. 3 figures. (*Ann. . del Reg. Lomb.-Veneto*, xiii. 191.) *Vicenza*, 1844

† Trattato del Magnetismo e della Elettricità. Parte i. 8vo. 389 pp. 3 plates. *Venezia*, 1844

† Trattato del Magnetismo e della Elettricità. Parte ii. 8vo. 546 pp. 4 plates. *Venezia*, 1845

Lettera al Principe di Canino. (*Trattato*, ii. 341.) *Venezia*, 1844

† Descrizione di una Macchina a disco per la doppia elettricità, e delle esperienze eseguite con essa comparativamente a quelle dell' elettromotore Voltiano. Letta il 16 Luglio, 1843. 4to. 11 pp. 1 plate. (*Mem. dell' Istit. Veneto*, tom. ii. p. 171.) *Venezia*, 1845

† Osservazioni . . alla descrizione della batteria magneto-elettrico-tellurica ed alla continuazione delle ricerche intorno ai fenomeni d'induzione del magnetismo terrestre di Luigi Palmieri. 4to. 9 pp. (*Ann. Reg. Lomb.-Veneto*, xiv. 45.) *Vicenza*, 1845

*Note.*—"*Articoli estratti dal No.* 17 *del Rendiconto della Rle. Accad. delle Scienze di Napoli.*")

Zantedeschi, Francesco.—*continued.*

† Memoria sugli effetti fisici chimici e fisiologici prodotti dalle alternative dell correnti d'induzione della macchina elettro-magnetica di Callan. Letta ii. Agosto, 1844, all' I. R. Istituto Veneto. 4to. 8 pp. (*Ann. Scien. Reg. Lomb. Veneto*, xiv. 110.) *Vicenza*, 1845

† Della teoria fisica delle Macchine magneto-elettriche ed elettro-magnetiche. Letta all' Ist. Veneto, 19 Genn. 1845. 4to. 12 pp. (*Ann. Scien. Reg. Lomb. Veneto*, xiv. 231.) *Vicenza*, 1845

† Della struttura dell' organo elettrico della Torpedine. Osservazioni. 4to. 4 pp. (*Inserito nel Bim. x, e vi, 1845, delle Ann. delle Scien. del Reg. Lomb. Veneto.*) *Vicenza*, 1845

† Raccolta fisico-chimica Italiana; ossia Collezione di Memorie originali edite ed inedite di Fisici, Chimici, e Naturalisti Italiani. Tom. i. 4to. 573 pp. 3 plates. (*Vide* 1847 and 1848.) *Venezia*, 1846

† Sulla virtù illuminante del polo negativo e calorifico del polo positivo dell' elettromotore Voltiano. 8vo. *Venezia*, 1846

Osserv. ed esperim. sulla forma elettricità della pila secca di Zamboni. 8vo. *Venezia*, 1846

† Giudizii di elettricisti oltramontani sul Trattato del Magnetismo e della Elettricità del Zantedeschi. 4to. 6 pp. *Venezia*, 1846

† Mention by Minotto in "Relazioni" of three works of Zantedeschi (communications, &c.). One of them is "sull' uffizio elettrico della midolla allungata nella Torpedine of 18 Mag. 1824," 8vo. (*Venetian Atheneum Esercitazioni*, v. 323 *et seq.*) *Venezia*, 1846

Ricerche fisico-chimiche sulla luce. Ta. 4to. (*From Giorn. di Fis. Ca.*) *Venezia*, 1846

† Sulle vibrazioni dei corpi sottoposti all' influenza del magnetismo e della elettricità, &c. 8vo. 16 pp. (*Contained in his "Raccolta,"* tom. ii. p. 467.) *Venezia*, 1847

† Raccolta fisico-chimica Italiana. Tom. ii. 4to. 524 pp. 6 plates. *Venezia*, 1847

† Sulla universalità dell' influenza elettro-magnetica nei corpi. 8vo. 3 pp. (*Dalla Gazz. Piem. del 16 Ottò* 1847, No. 245.) 1847

† Dei movimenti che presenta la fiamma sottoposta all' influenza elettro-magnetica. 8vo. 7 pp. (*Dalla Gazz. Piem. del* 12 *Ottò* 1847, No. 242.) 1847

† Illustrazione di alcuni fenomeni di elettro-magnetismo. 8vo. *Venezia*, 1848

Dell' influenza elettro-magnetica nei corpi, coll' analisi di una nota del Prof. Bancalari. 8vo. *Venezia*, 1848

† Della condizione magnetica e diamagnetica propria dei regni inorganico; e della condizione diamagnetica generale ai composti dei regni organici. 4to. 4 pp. (*Estratto dal fasc.* viii. *del* t. iii. *della Raccolta fisico-chim. Ital.*, p. 391.) *Venezia*, 1848

† Raccolta fisico-chimica Italiana. Tomo iii. 4to. 558 pp. 7 plates. *Venezia*, 1848

† Dello sviluppo della elettricità nell' atto della contrazione muscolare. Nuove esperienze del Z. 4to. 7 pp. *Roma*, 1849

(*Note.*—"*Lettera estratta dalla Corrispondenza Scientifica in Roma. Bullettino Universale*, anno ii. *di sua fondazione*, No. 15, 12 Dec. 1849.")

Della bipolarità chimico-elettrica delle irradiazioni prismatiche, &c. 8vo. *Venezia*, 1847

† Annali di fisica. 8vo. 400 pp. 1 plate. *Padova*, 1849-50

Di una nuova esperienza di Alfredo Smee, &c. &c. (*Comptes Rendus*, xxxii. 1851.) *Venezia*, 1850

Dell' influenza del magnetismo sull' arco voltiano. *Venezia*, 1850

Delle variazioni di temperatura immediatamente prodotte dal magnetismo. *Venezia*, 1850

Dell' azione calorifica ai poli dell' elettromotore voltiano. *Venezia*, 1850

Zantedeschi, Francesco.—*continued.*

Dei fenomeni luminosi studiati ai due poli dell' elettromotore voltiano. 8vo. *Venezia*, 1850

† Descrizione di un nuovo Dinamoscopio atomico. 8vo. 3 pp. (*Estr. dalla Puntata* ii. p. 29 *del Giorn. Fis. Chim. Ital.* 1851.) *Venezia*, 1851

Risposta alle osservazioni e nuove esperienze sopra un fenomeno avvertito da Dubois-Reymond, di Luigi Magrini. 8vo. (*Akad. Wien*, 1851, vii. Bd. i. Heft, p. 220.) *Venezia*, 1851

"Giornale Fisico-chimico Italiano." 2 vols. *Venezia e Padova*, 1851-52

† Memorie di Fisica del F. Zantedeschi. 4to. 28 p. (*Estratte dalle Puntate* ii. iii. e iv. *del Giornale Fis. Chim. Ital. del* 1852.) *Padova*, 1852

Nouvelles expériences d'électricité animale. 4to. (*Comptes Rendus*, xxxv. 1852.) *Paris*, 1852

† De la différence du pouvoir des deux Électricités. Note communiquée par M. Arago. 4to. 1 p. (*Comptes Rendus . . de l'Acad.* xxxv. Séance Sept. 1852.) (*Faraday's copy.*) *Paris*, 1852

† Dei fenomeni elettrici della macchina di Armstrong, &c. "Letta il 9 Agosto, 1846." 4to. 28 pp. (*Mem. dell' I. R. Istit. Veneto*, . . vol. iv. p. 45.) *Venezia*, 1852

† Della elettricità degli stami e pistilli delle piante esplorata all' atto della fecondazione e di una nuova classificazione delle piante o succhi vegetabili fondata sul numero e sulla direzione delle correnti elettriche longitudinali e trasversali. Memorie. 4to. 56 pp. 1 plate. (*Atti dell' Accad. dei Nuovi Lincei*, 1853.) *Padova*, 1853

Dell' esistenza e della natura delle correnti elettrici nei fili telegrafici. (*Abhandl. d. K. Akad. d. Wissensch.* Nov. 1853.) *Wien*, 1853

La termocrosi di Melloni dimostrata insussistente; e l'autore in opposizione con se stesso. Ricerche del Z. 4to. 7 pp. *Padua?* 1853

Nuovi esperimenti risguardanti l'origine della elettricità atmosferica e dell' induzione elettrostatica dei conduttori solidi isolati. 8vo. *Venezia*, 1854

† All' insig. Chimico Dumas . . dell' Istituto. Dell' azione reciproca di due correnti elettriche dirette nel medesimo senso e in senso opposto nello stesso filo; e dell' azione induttiva laterale delle medesime in fili isolati paralleli vicinissimi. 4to. 3 pp. (*Faraday's copy.*) *Padova*, 1854

† Sur le Principe électrostatique de Palagi, et ses expériences. Lettre . . à M. Quetelet. 4to. 2 pp. (*Extrait du tom. xxi. No. 2 des Bulletins. Acad. Rle. de Belgique, Séance du* 4 Février, 1854.) (*Faraday's copy.*) *Padova*, 1854

Nota intorno uno scaricatore elettro-telegrafico delle stazioni. (*Atti Istit. Veneto.* Ser. ii. vol. i. 1854.) *Venezia*, 1854

Della interferenza luminosa che presenta il filo metallico comune a due circuiti chiusi. (*Sitzungsb. Wien Acad.* xvi. 1855.) *Wien*, 1855

Ricerche sulla contemporaneità del passaggio delle opposte correnti elettriche in un filo metallico. (*Wien Acad.* xvii. 1855.) *Wien*, 1855

Mem. sugli argomenti comprovanti il simultaneo passaggio delle opposte correnti sullo stesso filo conduttore comune a due circuiti chiusi ed isolati. (*Atti Istit. Venet.* Ser. ii. vol. vi. 1855.) *Venezia*, 1855

Mem. sul simultaneo passaggio delle correnti elettriche opposte, etc. 4to. (*Atti Istit. Venet.* Ser. ii. vi. 1855.) *Venezia*, 1855

Documents à l'appui de sa réclamation de priorité concernant les variations de température produits par le magnétisme. 4to. (*Comptes Rendus*, xli. 55.) *Paris*, 1855

Etudes d'Electro-physiologie. Expériences sur le système ganglionnaire, et sur le système cérébro spinal. 8vo. (*La Science, Journal du Progrès des Sciences* . . 8 Sept. 1855.) *Paris*, 1855

Nuovo elettroscopio par le due elettricità d'influenza. 4to. (*Sitzungsb. Wien Acad.* 1855.) *Wien*, 1855